

CARRIERS AT WAR

TECHNICAL DATA ON SHIP CLASSES

PART TWO

US Warships in Service (1943-45) Commonwealth Warships in Service (1939-1945)

With the exception of a small number of Dutch warships, the technical data so far presented in this series covers all of the warships (of destroyer escort size or larger) which saw action in the Pacific Theatre.

This second installment of our ship data feature completes the roster for United States warships as well as listing British and other Commonwealth warships. Surface vessels smaller than destroyer escorts are not included.

Ships not completed in time to take part in the war have, for the most part, been excluded from this directory. A few exceptions however, specifically the more interesting capital ships, have slipped through.

Part One appeared in our January '86 issue and can be ordered from our Australian or US office while stocks last.

Our next issue will contain the final chapter. It will provide the specifications for German, Italian, French, Russian and selected minor country navies as well as some general data for support vessels and auxiliaries of all nationalities.

To make use of the information, locate the required ship from the listing and note the ship class to which it belongs. Now find this ship class from the appropriate table and enter these values either directly into your computer or (recommended) onto a blank design sheet.

Note that the pennant numbers for CV's are included even though there is enough

space in the carrier creation routine to enter most names in full.

The ship class tables also include the specialized data needed to create aircraft carriers and submarines. This information appears in the top row, in brackets, beside the number of ships in the class. For aircraft carriers, air capacity and spot number are read as (A,S). For submarines, depth and speed are read as (D,S).

We can illustrate the procedure with some examples. To design a scenario on the 1941 battles in the Mediterranean you will require, among others, both the *Queen Elizabeth* and the *Ark Royal*. Consult the Commonwealth ship listings (under battleships) and you'll find the pennant number of the *Queen Elizabeth* is BB 00 and the ship class is BB 1912. Locate BB 1912 in the ship class tables and enter the data found there onto a blank design sheet.

The *Ark Royal* is an aircraft carrier belonging to ship class CV 1935. The bracketed numbers in the top row of the class data are the carrier's air capacity and spot number, namely (60,4). These two values are needed for the carrier creation routine. *Ark Royal's* pennant number (CV 91) is provided for historical interest only.

The pennant numbers of Commonwealth warships were not, unfortunately, organized in the orderly, sequential fashion adopted by the United States Navy. All warships were awarded a 2 (sometimes 3) digit number with the pennants of smaller ships and those of colonial navies being preceded by a single letter of the alphabet (Flag Superior). Furthermore, these flags underwent one, sometimes two, changes in the course of the war.

The pennant numbers given to Commonwealth ships in this directory are those held in September 1939 or the date of commission for vessels entering service during the war.

Nineteen bulk transports/oil tankers were converted into merchant aircraft carriers (CVM 1942) from 1942 to early 1943. Only their air crew were naval personnel and they were otherwise commanded and manned by merchant marine seamen. On this account they did not receive pennants. With the arrival of purpose built escort carriers in the latter part of the war, these ships were phased out of service. If you need to use any of them, assign a scratch pennant in the range CVM 1-19.

Some 56 armed merchant cruisers were commissioned in the war years. A representative selection (AMC misc) of them have been included in this directory.

The 50 destroyer escorts of class DE 1918 are those provided on lend-lease by the United States in exchange for port facilities in the West Indies.

Between 1940 and 1942, British submarines were issued P pennant numbers without names. This practice was discontinued in 1943 primarily because of the confusion in ship recognition. Names are much easier to remember, and relate to, than numbers. The submarines without names are those sunk in the interim.

Royal Naval vessels were, in general, better sea boats than their USN counterparts being principally designed for the rigours of the Atlantic rather than the placid waters of the Pacific.

Anti-aircraft armament in British ships improved rapidly throughout the war although re-equipment proceeded at a slower pace than in the USN, primarily because of a chronic shortage of modern weapons. AA armament in capital ships increased by some 50% per year between 1942 and 1945, while the armament of smaller ships averaged only a 10-25% increase for the same periods. Many older ships received nothing at all.

UNITED STATES CAPITAL SHIPS

BB 1942	BB 63	Missouri
	BB 64	Wisconsin
BC 1941	BC 1	Alaska
	BC 2	Guam
CA 1942	CA 70	Canberra
	CA 71	Quincy
	CA 72	Pittsburgh
	CA 130	Bremerton
	CA 131	Fall River
	CA 135	Los Angeles
	CA 136	Chicago

UNITED STATES LIGHT CRUISERS

CLA1941	CLA97	Flint
	CLA98	Tucson
CL 1941	CL 65	Pasadena
	CL 66	Springfield
	CL 67	Topeka
	CL 80	Biloxi
	CL 81	Houston
	CL 86	Vicksburg
	CL 87	Duluth
	CL 89	Miami
	CL 90	Astoria
	CL 91	Oklahoma City
	CL 92	Little Rock
	CL 101	Amsterdam
	CL 103	Wilkes-Barre
	CL 104	Atlanta
	CL 105	Dayton

UNITED STATES AIRCRAFT CARRIERS

CV 1942	CV 10	Yorktown
	CV 11	Intrepid
	CV 12	Hornet
	CV 13	Franklin
	CV 14	Ticonderoga
	CV 15	Randolph
	CV 18	Wasp
	CV 19	Hancock
	CV 20	Bennington
	CV 31	Bon H. Richard
	CV 36	Antietam
	CV 38	Shangri-La
CVB1945	CVB41	Midway
	CVB42	F. D. Roosevelt
	CVB43	Coral Sea
CVL1942	CVL25	Cowpens
	CVL26	Monterey
	CVL27	Langley
	CVL28	Cabot
	CVL29	Bataan
	CVL30	San Jacinto
CVE1943	CVE55	Casablanca
	CVE56	Liscome Bay
	CVE57	Anzio
	CVE58	Corregidor
	CVE59	Mission Bay
	CVE60	Guadalcanal
	CVE61	Manila Bay
	CVE62	Natoma Bay
	CVE63	St Lo
	CVE64	Tripoli
	CVE65	Wake Island
	CVE66	White Plains
	CVE67	Solomans
	CVE68	Kalinin Bay
	CVE69	Kasaan Bay
	CVE70	Fanshaw Bay
	CVE71	Kitkun Bay
	CVE72	Tulagi
	CVE73	Gambier Bay
	CVE74	Nehenta Bay
	CVE75	Hoggatt Bay
	CVE76	Kadashan Bay
	CVE77	Marcus Island
	CVE78	Savo Island
	CVE79	Ommaney Bay
	CVE80	Petrof Bay
	CVE82	Saginaw Bay
	CVE83	Sargent Bay
	CVE84	Shamrock Bay
	CVE85	Shipleigh Bay
	CVE86	Sitkoh Bay
	CVE87	Steamer Bay
	CVE88	Cape Esperance
	CVE89	Takanis Bay
	CVE90	Thetis Bay
	CVE91	Makassar Strait
	CVE92	Windham Bay
	CVE93	Makin Island
	CVE94	Lunga Point
	CVE95	Bismarck Sea
	CVE96	Salamaua
	CVE97	Hollandia
	CVE98	Kwajalein
	CVE99	Admiralty Islands
CVE1944	CVE105	Commencement B.
	CVE106	Block Island
	CVE107	Gilbert Islands
	CVE108	Kula Gulf

UNITED STATES DESTROYERS

DD 1942	DD 516	Wadsworth
	DD 517	Walker
	DD 522	Luce
	DD 534	McCord
	DD 535	Miller
	DD 536	Owen
	DD 537	The Sullivans
	DD 538	Stephen Potter
	DD 539	Tingey
	DD 540	Twining
	DD 541	Yarnall
	DD 546	Brown
	DD 547	Cowell
	DD 555	Haggard
	DD 556	Hailey
	DD 557	Johnston
	DD 558	Laws
	DD 559	Longshaw
	DD 560	Morrison
	DD 561	Prichett
	DD 562	Robinson
	DD 563	Ross
	DD 564	Rowe
	DD 565	Smalley
	DD 566	Stoddard
	DD 567	Watts
	DD 568	Wren
	DD 584	Halligan
	DD 585	Haraden
	DD 586	Newcomb
	DD 590	Paul Hamilton
	DD 591	Twiggs
	DD 592	Howorth
	DD 593	Killen
	DD 594	Hart
	DD 595	Metcalfe
	DD 596	Shields
	DD 597	Wiley
	DD 629	Abbot
	DD 630	Braine
	DD 631	Erben
	DD 642	Hale
	DD 643	Sigourney
	DD 644	Stembel
	DD 649	Albert W Grant
	DD 650	Caperton
	DD 651	Cogswell
	DD 652	Ingersoll
	DD 653	Knapp
	DD 654	Bearss
	DD 655	John Hood
	DD 656	Van Valkenburgh
	DD 657	Charles J Badger
	DD 658	Colahan
	DD 659	Dashiell
	DD 660	Bullard
	DD 661	Kidd
	DD 662	Bennion
	DD 663	Hey. L Edwards
	DD 664	Richard P Leary
	DD 665	Bryant
	DD 666	Black
	DD 667	Chauncey
	DD 668	Clar. K Bronson
	DD 669	Cotten
	DD 670	Dortch
	DD 671	Gatling
	DD 672	Healy
	DD 673	Hickox

DD 1943

DD 674 Hunt
 DD 675 Lewis Hancock
 DD 676 Marshall
 DD 677 McDermut
 DD 678 McGowan
 DD 679 McNair
 DD 680 Melvin
 DD 681 Hopewell
 DD 682 Porterfield
 DD 683 Stockham
 DD 684 Wedderburn
 DD 685 Picking
 DD 686 Halsey Powell
 DD 687 Uhlmann
 DD 688 Remy
 DD 689 Wadleigh
 DD 690 Norman Scott
 DD 691 Mertz
 DD 792 Callaghan
 DD 793 Cassin
 DD 794 Irwin
 DD 795 Preston
 DD 796 Benham
 DD 797 Cushing
 DD 798 Monssen
 DD 799 Jarvis
 DD 800 Porter
 DD 801 Colhoun
 DD 802 Gregory
 DD 803 Little
 DD 804 Rooks
 DD 692 Allen M Sumner
 DD 693 Moale
 DD 694 Ingraham
 DD 695 Cooper
 DD 696 English
 DD 697 Charles S Sperry
 DD 698 Ault
 DD 699 Waldron
 DD 700 Haynsworth
 DD 701 John W Weeks
 DD 702 Hank
 DD 703 Wallace L Lind
 DD 704 Borie
 DD 722 Barton
 DD 723 Walke
 DD 724 Laffey
 DD 725 O'Brien
 DD 726 Meredith
 DD 727 De Haven
 DD 728 Mansfield
 DD 729 Lyman K. Swenson
 DD 730 Collett
 DD 731 Maddox
 DD 732 Hyman
 DD 733 Mannert L Abele
 DD 734 Purdy
 DD 744 Blue
 DD 745 Brush
 DD 746 Taussig
 DD 747 Samuel N Moore
 DD 748 Harry E Hubbard
 DD 752 Al. A Cunningham
 DD 757 Putnam
 DD 758 Strong
 DD 759 Lotberg
 DD 770 Lowry
 DD 774 Hugh W Hadley
 DD 775 Willard Kieth
 DD 776 James C Owens
 DD 777 Zellars
 DD 778 Masey
 DD 779 Douglas H Fox
 DD 780 Stormes

UNITED STATES DESTROYER ESCORTS

DE 1942 DE 7-11, 23-45, 47-50,
 256-265, 301-307,
 527-530

DE 1943A DE 51 Buckley
 DE 53 Charles Lawrence
 DE 54 Daniel T Griffin
 DE 56 Donnell
 DE 57 Fogg
 DE 59 Foss
 DE 60 Gantner
 DE 62 George W Ingram
 DE 63 Ira Jeffery
 DE 65 Lee Fox
 DE 66 Amesbury
 DE 68-70, 153-161,
 198-223, 575-578,
 633-644, 665-667,
 675-683, 693-705,
 789-800

DE 1943B DE 224 Rudderow
 DE 225 Day
 DE 230 Chaffee
 DE 231 Hodges
 DE 339 John C Butler
 DE 340 O'Flaherty
 DE 341 Raymond
 DE 342 Richard Seusens
 DE 343 Abercrombie
 DE 344 Oberrender
 DE 345-379, 402-424,
 438-452, 508-510,
 531-554, 579-589,
 684-686, 706-709

DE 1943C DE 99 Cannon
 DE 100 Christopher
 DE 101 Alger
 DE 102 Thomas
 DE 103 Bostwick
 DE 104 Breman
 DE 105 Burrows
 DE 112 Carter
 DE 113 Clarence L Evans
 DE 129 Edsall
 DE 130-152, 162-197,
 238-255, 316-338,
 382-401

UNITED STATES SUBMARINES

SS 1941 SS 240 Angler
 SS 241 Bashaw
 SS 242 Bluegill
 SS 243 Bream
 SS 244 Cavalla
 SS 245 Cobia
 SS 246 Croaker
 SS 247 Dace
 SS 248 Dorado
 SS 249 Flasher
 SS 250 Flier
 SS 251 Flounder
 SS 252 Gabilan
 * SS 253 Gunnel
 * SS 254 Gurnard
 * SS 255 Haddo
 * SS 256 Hake
 * SS 257 Harder
 * SS 258 Hoe
 * SS 259 Jack
 * SS 260 Lapon
 * SS 261 Mingo
 * SS 262 Muskallunge
 * SS 263 Paddle
 * SS 264 Pargo
 * SS 265 Peto
 * SS 266 Pogy
 * SS 267 Pompon
 * SS 268 Puffer
 * SS 269 Rasher
 SS 270 Raton
 SS 271 Ray
 SS 272 Redfin
 SS 273 Robalo
 SS 274 Rock
 * SS 275 Runner
 * SS 276 Sawfish
 * SS 277 Scamp
 * SS 278 Scorpion
 * SS 279 Snook
 * SS 280 Steelhead
 * SS 281 Sunfish
 * SS 282 Tunny
 * SS 283 Tinosa
 * SS 284 Tullibee
 * SS 285 Balao
 * SS 286 Billfish
 * SS 287 Bowfin
 * SS 288 Cabrilla
 SS 289 Capelin
 * SS 290 Cisco
 SS 291 Crevalle
 SS 292 Devilfish
 SS 293 Dragonet
 SS 294 Escolar
 SS 295 Hackleback
 SS 296 Lancetfish
 SS 297 Ling
 SS 298 Lionfish
 SS 299 Manta
 SS 300 Moray
 SS 301 Roncador
 SS 302 Sabalo
 SS 303 Sablefish
 SS 304 Seahorse
 SS 305 Skate
 SS 306 Tang
 SS 307-334, 361-374,
 381-414, 417-422

NOTES TO SHIP LISTS

1. There was a bit of a mess-up in the ship lists of US submarines in Part 1. The pennant numbers identified with an asterisk (*) were given incorrect names. The correct names appear herewith.

2. Ships with a bracketed letter after their name correspond to the similarly identified data in the ship class tables. For example, the light cruiser *Bonaventure* (CL 31) has a heavy AA rating of 8 (instead of 10) and a secondary armament of 4 (instead of 5).

COMMONWEALTH AIRCRAFT CARRIERS

CV 1922	CV 47	Furious
CV 1924	CV 50	Courageous
	CV 77	Glorious
CV 1935	CV 91	Ark Royal
CV 1937A	CV 38	Victorious
	CV 67	Formidable
	CV 87	Illustrious
CV 1937B	CV 92	Indomitable
CV 1939	CV 10	Indefatigable
	CV 86	Implacable
CVL1913	CVL94	Eagle
CVL1914	CVL49	Argus
CVL1918	CVL95	Hermes
CVL1939	CVL72	Unicorn
CVL1942	CVL15	Colossus
	CVL62	Glory
	CVL69	Venerable
	CVL71	Vengeance
CVE1938A	CVE10	Audacity
CVE1938B	CVE61	Pretoria Castle
CVE1938C	CVE78	Archer
CVE1939	CVE14	Avenger
	CVE37	Dasher
	CVE97	Biter
CVE1941A	CVE02	Attacker
	CVE12	Striker
	CVE18	Battler
	CVE32	Chaser
	CVE64	Fencer
	CVE73	Pursuer
	CVE80	Trailer
	CVE91	Stalker
CVE1941B	CVE48	Campania
CVE1942A	CVE05	Nairana
	CVE15	Vindex
CVE1942B	CVE01	Ameer
	CVE03	Ranee
	CVE07	Patroller
	CVE09	Trumpeter
	CVE10	Rajah
	CVE19	Queen
	CVE21	Shah
	CVE23	Premier
	CVE24	Tracker
	CVE26	Slinger
	CVE31	Arbiter
	CVE38	Begum
	CVE40	Searcher
	CVE42	Empress
	CVE48	Thane
	CVE51	Atheling
	CVE55	Smiter
	CVE62	Khediye
	CVE70	Ravager
	CVE72	Ruler
	CVE77	Nabob
	CVE79	Puncher
	CVE82	Reaper
	CVE85	Trouncer
	CVE90	Speaker
	CVE98	Emperor
CVM1942	Empire MacAlpine, E. MacKendrick, E. MacRae, E. MacAndrew, E. MacColl, E. MacDermott, E. MacCabe, E. MacCallum, E. Mackay, E. MacMahon, Adula, Alexia, Amastra, Ancyclus, Gadila, Macoma, Miralda, Acavus, Rapana	

COMMONWEALTH BATTLESHIPS

BB 1912	BB 00	Q. Elizabeth (b)
	BB 01	Malaya
	BB 02	Valiant (b)
	BB 03	Warspite (a)
	BB 04	Barham
BB 1913	BB 05	Royal Sovereign
	BB 06	Revenge
	BB 07	Ramilles
	BB 08	Royal Oak (a)
	BB 09	Resolution
BB 1922	BB 28	Nelson
	BB 29	Rodney
BB 1937	BB 17	Duke of York
	BB 32	Howe
	BB 41	King George V
	BB 53	Prince of Wales
	BB 79	Anson
BB 1941	BB 23	Vanguard
BC 1915	BC 34	Repulse (a)
	BC 72	Renown
BC 1916	BC 51	Hood

COMMONWEALTH HEAVY CRUISERS

CA 1916	CA 181	Frobisher (b)
	CA 186	Hawkins
	CA 198	Effingham (a)
CA 1924	CA 133	Canberra (ad)
	CA 54	Kent
	CA 55	Suffolk (d)
	CA 56	Cornwall
	CA 57	Cumberland (d)
	CA 65	Berwick
	CA 184	Australia (bcd)
CA 1926	CA 39	Devonshire
	CA 69	London
	CA 73	Shropshire
	CA 96	Sussex
CA 1927A	CA 90	York
CA 1927B	CA 40	Dorsetshire
	CA 78	Norfolk
CA 1928	CA 68	Exeter

COMMONWEALTH MERCHANT CRUISERS

AMC misc	F17	Alaunia
	F22	Patroclus
	F30	Forfar
	F35	Rajputana
	F40	Jervis Bay
	F42	Laonia
	F45	Hector
	F47	Voltaire
	F49	Comorin
	F51	Laurentic
	F55	California
	F65	Transylvania
	F71	Asturias
	F88	Alcantara
	F94	Salopian
	F95	Westralia

COMMONWEALTH LIGHT CRUISERS

CL 1912	CL 147	Adelaide
CL 1916A	CL 153	Caledon
	CL 160	Caradoc
	CL 161	Calypso
CL 1916B	CL 141	Curacoa (a)
	CL 142	Curlew (a)
	CL 143	Coventry (a)
	CL 158	Cardiff
	CL 159	Ceres
CL 1916C	CL 130	Despatch
	CL 144	Danae
	CL 145	Dauntless
	CL 146	Dragon
	CL 174	Delhi
	CL 192	Diomede
	CL 193	Dunedin
	CL 199	Durban
CL 1917	CL 167	Carlisle (a)
	CL 182	Calcutta (a)
	CL 187	Cairo (a)
	CL 188	Capetown
	CL 189	Colombo
CL 1918	CL 152	Enterprise
	CL 166	Emerald
CL 1931	CL 20	Neptune
	CL 22	Ajax
	CL 70	Achilles (a)
	CL 75	Leander
	CL 85	Orion
CL 1933A	CL 12	Aurora (ac)
	CL 26	Arethusa
	CL 71	Galatea
	CL 97	Penelope (ab)
CL 1933B	CL 129	Perth
	CL 148	Sydney
	CL 163	Hobart
CL 1934	CL 19	Birmingham
	CL 21	Glasgow
	CL 24	Sheffield
	CL 76	Newcastle
	CL 83	Southampton
CL 1936A	CL 11	Liverpool
	CL 15	Manchester
	CL 62	Gloucester
CL 1936B	CL 16	Edinburgh
	CL 35	Belfast
CL 1937	CL 31	Bonaventure (a)
	CL 33	Cleopatra
	CL 37	Dido (a)
	CL 42	Euryalus
	CL 43	Phoebe (a)
	CL 61	Argonaut
	CL 74	Hermione
	CL 82	Sirius
	CL 88	Charybdis (a)
	CL 93	Naïad
	CL 98	Scylla (a)
CL 1938	CL 14	Kenya (b)
	CL 30	Ceylon (a)
	CL 44	Jamaica
	CL 46	Trinidad
	CL 48	Gambia
	CL 52	Bermuda
	CL 58	Fiji (b)
	CL 59	Newfoundland (a)
	CL 60	Nigeria
	CL 66	Uganda (a)
	CL 80	Mauritius
CL 1939	CL 63	Bellona
	CL 89	Royalist
	CL 95	Spartan

COMMONWEALTH DESTROYERS

DD 1917 DD D22 Waterhen
DD D30 Whirlwind
DD D31 Voyager
DD D43 Wessex
DD D53 Venetia
DD D68 Vampire
DD D69 Vendetta
DD D88 Wren
DD D96 Worcester
DD H88 Wakeful

DD 1924 DD D38 Ambuscade
DD D39 Amazon

DD 1928 DD D06 Kieth
DD D59 Skeena
DD D65 Codrington (a)
DD D79 Saguenay
DD H09 Acasta
DD H11 Basilisk
DD H12 Achates
DD H14 Active
DD H30 Beagle
DD H36 Antelope
DD H40 Anthony
DD H41 Ardent
DD H42 Arrow
DD H45 Acheron
DD H47 Blanche
DD H65 Boadicea
DD H77 Boreas
DD H80 Brazen
DD H84 Brilliant
DD H91 Bulldog

DD 1930 DD D18 Assinboine
DD D99 Duncan
DD H00 Restigouche
DD H07 Defender
DD H16 Daring
DD H22 Diamond
DD H38 Delight
DD H48 Fraser
DD H49 Diana
DD H53 Dainty
DD H60 Ottawa
DD H64 Duchess
DD H75 Decoy

DD 1933 DD H83 St Laurent
DD H02 Exmouth (a)
DD H08 Eclipse
DD H10 Encounter
DD H15 Esk
DD H17 Escapade
DD H23 Echo
DD H27 Electra
DD H61 Express
DD H62 Faulknor (a)
DD H66 Escort
DD H67 Fearless
DD H68 Foresight
DD H69 Foxhound
DD H70 Fortune
DD H74 Forester
DD H76 Fury
DD H78 Fame
DD H79 Firedrake

DD 1934 DD H01 Hotspur
DD H03 Grenville (a)
DD H05 Greyhound
DD H05 Ithurial (b)
DD H06 Hurricane (b)
DD H19 Harvester (b)
DD H24 Hasty

DD H31 Griffin
DD H32 Havant (b)
DD H35 Hunter
DD H37 Garland
DD H43 Havoc
DD H44 Highlander (b)
DD H49 Inconstant (b)
DD H55 Hostile
DD H57 Hesperus (b)
DD H59 Gallant
DD H63 Gypsy
DD H86 Grenade
DD H87 Hardy (a)
DD H88 Havelock (b)
DD H89 Grafton
DD H92 Glowworm (b)
DD H93 Hereward
DD H97 Hyperion
DD H99 Hero

DD 1936 DD D02 Inglefield (ab)
DD D03 Icarus (b)
DD D09 Imperial (b)
DD D10 Intrepid (b)
DD D11 Impulsive (b)
DD D16 Ivanhoe (b)
DD D44 Imogen (b)
DD D61 Ilex (b)
DD D87 Isis (b)
DD F03 Cossack
DD F07 Afridi
DD F18 Zulu
DD F20 Gurkha
DD F21 Punjabi
DD F24 Maori
DD F26 Matabele
DD F31 Mohawk
DD F33 Somali
DD F36 Nubian
DD F43 Tartar
DD F51 Ashanti
DD F59 Mashona
DD F67 Bedouin
DD F75 Eskimo
DD F82 Sikh
DD G07 Athabaskan (a)
DD G24 Huron (a)
DD G63 Haida (a)
DD G89 Iroquios (a)
DD I30 Arunta (a)
DD I44 Warramunga (a)
DD I91 Bataan (a)
DD R04 Cayuga (a)
DD R10 Micmac (a)
DD R96 Nookta (a)

DD 1937 DD F00 Jarvis
DD F01 Kelly
DD F12 Kashmir
DD F22 Jackal
DD F28 Kandahar
DD F34 Jaguar
DD F37 Kelvin
DD F45 Khartoum
DD F46 Juno
DD F50 Kimberley
DD F53 Janus
DD F61 Javelin
DD F64 Kingston
DD F72 Jersey
DD F85 Jupiter
DD F91 Kipling
DD G02 Nestor
DD G16 Nonpareil
DD G25 Norseman
DD G38 Nizam
DD G49 Norman
DD G65 Nerissa

DD 1938 DD G84 Noble
DD G97 Napier
DD F15 Loyal
DD F32 Lookout
DD F40 Lively (a)
DD F55 Lightning (a)
DD F63 Gurkha (a)
DD F74 Legion (a)
DD F87 Lance
DD F99 Laforey
DD G14 Milne
DD G23 Mahratta
DD G35 Marne
DD G44 Martin
DD G52 Matchless
DD G73 Meteor
DD G86 Musketeer
DD G90 Myrmidon

DD 1939 DD G04 Onslaught
DD G06 Pakenham
DD G10 Pathfinder
DD G17 Onslow
DD G29 Offa
DD G30 Partridge
DD G39 Obdurate
DD G41 Panther
DD G48 Obedient
DD G56 Petard
DD G66 Oribi
DD G69 Paladin
DD G77 Penn
DD G80 Opportune
DD G93 Porcupine
DD G98 Orwell

DD 1940 DD G09 Quilliam
DD G11 Quadrant
DD G45 Quail
DD G62 Quality
DD G70 Queenborough
DD G78 Quentin
DD G81 Quiberon
DD G92 Quickmatch
DD H09 Rotherham
DD H11 Racehorse
DD H15 Raider
DD H32 Rapid
DD H41 Redoubt
DD H85 Relentless
DD H92 Rocket
DD H95 Roebuck

DD 1941 DD G01 Scourge
DD G03 Shark
DD G12 Saumarez
DD G20 Savage
DD G26 Success
DD G46 Swift
DD G72 Scorpion
DD G94 Serapis
DD R00 Troubridge
DD R03 Kempenfelt
DD R05 Urania
DD R08 Hardy
DD R11 Tumult
DD R17 Valentine
DD R22 Ursa
DD R23 Teazer
DD R28 Verulam
DD R33 Terpsichore
DD R37 Whelp
DD R41 Volage
DD R42 Undine
DD R45 Tenacious
DD R48 Wrangler
DD R50 Venus
DD R53 Undaunted
DD R56 Tuscan

DD R59 Wakeful
 DD R64 Vixen
 DD R67 Tyrian
 DD R69 Ulysses
 DD R72 Wizard
 DD R75 Virago
 DD R78 Wessex
 DD R83 Ulster
 DD R87 Whirlwind
 DD R89 Termagant
 DD R93 Vigilant
 DD R97 Grenville
 DD R98 Wager
 DD R99 Urchin
 DD 1942A DD R01 Caprice
 DD R02 Zest
 DD R06 Myngs
 DD R07 Caesar
 DD R15 Cavendish
 DD R19 Zephyr
 DD R25 Carysfort
 DD R30 Carron
 DD R39 Zealous
 DD R54 Zodiac
 DD R62 Cassandra
 DD R66 Zambesi
 DD R73 Cavalier
 DD R81 Zebra
 DD R85 Cambrian
 DD R95 Zenith
 DD 1942B DD R14 Armada
 DD R32 Camperdown
 DD R44 Lagos
 DD R55 Finisterre
 DD R70 Solebay
 DD R74 Hogue
 DD R77 Trafalgar
 DD R80 Barfleur
 DD R84 Saintes

COMMONWEALTH DESTROYER ESCORTS

DE 1916 DE D85 Shikari
 DE D86 Thracian (a)
 DE H04 Tenedos (a)
 DE H18 Sabre
 DE H21 Scimitar
 DE H26 Sardonyx
 DE H28 Sturdy
 DE H29 Thanet (a)
 DE H39 Skate
 DE H50 Stronghold
 DE H51 Scout
 DE H54 Saladin
 DE 1917 DE D23 Vimiera (a)
 DE D25 Warwick
 DE D26 Watchman
 DE D27 Walker
 DE D28 Vanity (a)
 DE D29 Vanessa
 DE D32 Versatile
 DE D33 Vimy
 DE D34 Velox
 DE D35 Wrestler
 DE D36 Vivacious
 DE D37 Vortigern
 DE D41 Walpole
 DE D42 Windsor
 DE D46 Winchelsea
 DE D47 Westcott
 DE D48 Vidette

DE D49 Valentine (a)
 DE D52 Vega (a)
 DE D54 Vanquisher
 DE D62 Wildswan
 DE D63 Verity
 DE D64 Vansittart
 DE D66 Wivern
 DE D67 Wishart
 DE D71 Volunteer
 DE D72 Veteran
 DE D74 Wanderer
 DE D75 Venomous
 DE D76 Witherington
 DE D77 Whitshed
 DE D78 Wolverine
 DE D89 Witch
 DE D92 Viscount
 DE D93 Verdun (a)
 DE D94 Whitehall
 DE H33 Vanoc
 DE L00 Valorous (a)
 DE L33 Vivien
 DE 1918 DE G05 Lancaster
 DE G08 Newark
 DE G19 Leamington
 DE G27 Leeds
 DE G42 Lincoln
 DE G47 Newmarket
 DE G54 Newport
 DE G57 Ludlow
 DE G58 Rockingham
 DE G60 Ramsey
 DE G68 Lewes
 DE G71 Reading
 DE G76 Mansfield
 DE G79 Ripley
 DE G88 Richmond
 DE G95 Montgomery
 DE H46 Belmont
 DE H64 Beverley
 DE H72 Bradford
 DE H81 Broadwater
 DE H82 Burnham
 DE H90 Broadway
 DE H94 Burwell
 DE H96 Buxton
 DE I04 Annapolis
 DE I05 Cameron
 DE I07 Roxburgh
 DE I08 Brighton
 DE I12 St Mary's
 DE I14 Clare
 DE I15 St Albans
 DE I17 Bath
 DE I20 Caldwell
 DE I21 Charleston
 DE I23 Castleton
 DE I24 Hamilton
 DE I28 Chesterfield
 DE I35 Chelsea
 DE I40 Georgetown
 DE I42 Campbeltown
 DE I45 Churchill
 DE I49 Colombia
 DE I52 Salisbury
 DE I57 Niagara
 DE I65 St Clair
 DE I73 Stanley
 DE I80 Sherwood
 DE I81 St Croix
 DE I93 St Francis
 DE I95 Wells
 DE 1939A DE L05 Atherstone
 DE L11 Fernie
 DE L17 Berkeley
 DE L20 Garth

DE L24 Blencathra
 DE L25 Southdown
 DE L35 Cattistock
 DE L37 Hambledon
 DE L42 Brocklesby
 DE L45 Whaddon
 DE L46 Cleveland
 DE L48 Holderness
 DE L54 Cotswold
 DE L58 Quantock
 DE L60 Mendip
 DE L61 Exmoor
 DE L66 Quorn
 DE L78 Cottesmore
 DE L82 Meynell
 DE L87 Eglinton
 DE L92 Pytchley
 DE L96 Tynedale
 DE 100 Liddesdale
 DE 1939B DE L03 Badsworth
 DE L06 Avon Vale
 DE L08 Burton
 DE L10 Southwold
 DE L14 Beaufort
 DE L26 Bedale
 DE L28 Hurworth
 DE L30 Blankney
 DE L31 Chiddingfold
 DE L34 Bicester
 DE L43 Blackmore
 DE L51 Bramham
 DE L52 Cowdray
 DE L59 Zetland
 DE L62 Croome
 DE L63 Dulverton
 DE L68 Eridge
 DE L70 Farndale
 DE L71 Calpe
 DE L72 Oakley
 DE L74 Middleton
 DE L77 Grove
 DE L84 Hursley
 DE L85 Heythrop
 DE L88 Lamerton
 DE L90 Ledbury
 DE L95 Lauderdale
 DE L98 Tickham
 DE L99 Tetcott
 DE 108 Puckeridge
 DE 115 Silvertown
 DE 122 Wheatland
 DE 128 Wilton
 DE 1940 DE L07 Airedale
 DE L09 Easton
 DE L12 Albrighton
 DE L15 Eggesford
 DE L16 Stevenstone
 DE L18 Talybont
 DE L19 Haldon
 DE L22 Aldenham
 DE L27 Goathland
 DE L32 Belvoir
 DE L36 Eskdale
 DE L39 Rockwood
 DE L44 Glaisdale
 DE L47 Blean
 DE L50 Bleasdale
 DE L53 Hatherleigh
 DE L56 Holcombe
 DE L57 Limbourne
 DE L65 Bolebroke
 DE L67 Border
 DE L69 Tanatside
 DE L73 Melbreak
 DE L75 Haydon
 DE L81 Catterick

DE 1941 DE L83 Derwent
 DE L86 Wensleydale
 DE L89 Penylan
 DE L91 Modbury
 DE L76 Brecon
 DE L79 Brissenden

COMMONWEALTH SUBMARINES

SS 1924 SS N21 Oberon
 SS 1925 SS N51 Otway
 SS 1927 SS N55 Oxley
 SS N35 Olympus
 SS N46 Orpheus
 SS N58 Oswald
 SS N67 Osiris
 SS N84 Odin
 SS N92 Otus
 SS 1928 SS N29 Proteus
 SS N36 Perseus
 SS N42 Pandora
 SS N75 Parthian
 SS N96 Phoenix
 SS 1929 SS N16 Rainbow
 SS N41 Regent
 SS N62 Rover
 SS N88 Regulus
 SS 1930 SS N61 Swordfish
 SS N73 Sturgeon
 SS 19S Starfish
 SS 98S Seahorse
 SS 1931A SS N12 Clyde
 SS N57 Severn
 SS N71 Thames
 SS 1931B SS 37M Seal
 SS N14 Porpoise
 SS N45 Narwhal
 SS N56 Grampus
 SS N74 Rorqual
 SS N83 Cachalot
 SS 1933 SS N22 Sterlet
 SS N39 Snapper
 SS N47 Seawolf
 SS N54 Shark
 SS N65 Salmon
 SS N69 Spearfish
 SS N72 Sealion
 SS N81 Sunfish
 SS 1936 SS N15 Triton
 SS N17 Tarpon
 SS N18 Triumph
 SS N24 Thistle
 SS N38 Taku
 SS N52 Trident
 SS N53 Triad
 SS N63 Tigris
 SS N68 Truant
 SS N76 Tribune
 SS N77 Tetrarch
 SS N78 Talisman
 SS N79 Torbay
 SS N94 Tuna
 SS 11T Thetis
 (Thunderbolt)
 SS 1937 SS N48 Undine
 SS N59 Ursula
 SS N66 Unity
 SS 1939A SS N11 Thorn
 SS N37 Thrasher
 SS N45 Trusty
 SS N48 Traveller

SS N86 Tempest
 SS N91 Trooper
 SS N98 Turbulent
 P311 (-)
 P312 Trespasser
 P314 Tactician
 P315 Truculent
 P316 Templar
 P317 Tally Ho
 P318 Tantalus
 P319 Tantivy
 P339 Taurus
 SS 1939B SS N17 Urge
 SS N19 Utmost
 SS N55 Undaunted
 SS N56 Union
 SS N65 Usk
 SS N82 Umpire
 SS N87 Una
 SS N89 Upright
 SS N93 Unbeaten
 SS N95 Unique
 SS N97 Urchin
 SS N99 Upholder
 SS P31 Uproar
 SS P32 (-)
 SS P33 (-)
 SS P34 Ultimatum
 SS P35 Umbra
 SS P36 (-)
 SS P37 Unbending
 SS P38 (-)
 SS P39 (-)
 SS P41 Uredd
 SS P42 Unbroken
 SS P43 Unison
 SS P44 United
 SS P45 Unrivalled
 SS P46 Unruffled
 SS P47 Dolfijn
 SS P48 (-)
 SS P49 Unruly
 SS P51 Unseen
 SS P52 Dzik
 SS P53 Ultor
 SS P54 Unshaken
 SS P55 Unsparing
 SS P56 Usurper
 SS P57 Universal
 SS P58 Untamed
 SS P59 Untiring
 SS P61 Varangian
 SS P62 Uther
 SS P63 Unswerving
 SS P64 Vandal
 SS P65 Upstart
 SS P66 Varne
 SS P67 Vox
 SS 1940 P211 Safari
 P212 Sahib
 P214 Satyr
 P215 Sceptre
 P216 Sea Dog
 P217 Sybil
 P218 Sea Rover
 P219 Seraph
 P221 Shakespeare
 P222 (-)
 P223 Sea Nymph
 P224 Sickle
 P225 Simoom
 P226 Sirdar
 P227 Spiteful
 P228 Splendid
 P229 Sportsman
 P231 Stoic

P232 Stonehenge
 P233 Storm
 P234 Stratagem
 P235 Strongbow
 P236 Spark
 P237 Scythian
 P238 Stubborn
 P239 Surf
 P241 Syrtis
 P242 Shalimar
 P243 Scotsman
 P244 Sea Devil
 P245 Spirit
 P246 Statesman
 P247 Saracen
 SS 1941 P321 Telemachus
 P322 Talent
 P323 Terrapin
 P324 Thorough
 P325 Thule
 P326 Tudor
 P327 Tireless
 P328 Token
 P329 Tradewind
 P331 Trenchant
 P332 Tiptoe
 P333 Trump
 P334 Taciturn
 P335 Tapir
 P352 Totem
 P353 Truncheon
 P354 Turpin
 SS 1942A P248 Sturdy
 P249 Stygian
 P251 Subtle
 P252 Supreme
 P253 Sea Scout
 P254 Selene
 P261 Sleuth
 P262 Solent
 SS 1942B SS P18 Vagabond
 SS P29 Votary
 SS P68 Venturer
 SS P69 Viking
 SS P71 Veldt
 SS P72 Vampire
 SS P73 Vox
 SS P74 Vigorous
 SS P75 Virtue
 SS P76 Visigoth
 SS P77 Vivid
 SS P78 Voracious
 SS P79 Vulpine
 SS P81 Varne
 SS P82 Upshot
 SS P83 Urtica
 SS P84 Vineyard
 SS P85 Variance
 SS P86 Vengeful
 SS P87 Vortex
 SS P95 Virulent
 SS P96 Volatile

**COMING IN OUR
 NEXT ISSUE . . .
 the naval forces of . . .**

**GERMANY
 ITALY
 FRANCE
 RUSSIA**

UNITED STATES SHIP CLASSES - A CARRIERS AT WAR DESIGN FEATURE

NUMBER IN CLASS	#	15(98,9)	3(127,11)	9(45,5)	44(27,2)	4(33,3)	4	9	8	24	2	176
SHIP CLASS NAME	[8]	CV 1942	CVB1945	CVL1942	CVE1943	CVE1944	BB 1942	CA 1942	CLA1941	CL 1941	BC 1941	DD 1942
ALLIED	Y/N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
SEAPLANE	Y/N	N	N	N	N	N	N	N	N	N	N	N
SHIP TYPE	0-4	0	0	0	0	0	1	1	2	2	1	2
MAXIMUM SPEED	0-45	33	33	32	19	19	33	33	33	33	33	35
DISPLACEMENT	0-31	14	24	6	4	9	23	7	3	6	14	1
HEAVY AA	0-31	12	18	0	2	2	20	12	16	12	12	5
LIGHT AA	0-31	14	29	12	4	12	28	15	8	9	19	4
ARMOUR	0-15	4	8	0	0	0	12	6	4	5	9	1
PRIMARY GUNS	0-15	0	0	0	0	0	9	9	0	0	9	0
SECONDARY GUNS	0-15	6	0	0	1	1	10	6	8	15	6	2
TORPEDO TUBES	0-15	0	0	0	0	0	0	0	8	0	0	10
VULNERABILITY	0-7	2	4	2	2	3	7	6	4	5	5	5
ANTI-SUBMARINE	0-7	0	0	0	0	0	0	0	0	0	0	3
TORPEDO LOADS	0-3	0	0	0	0	0	0	0	1	0	0	1

NUMBER IN CLASS	#	43	67	102	128	130	171(6,5)
SHIP CLASS NAME	[8]	DD 1943	DE 1942	DE 1943A	DE 1943B	DE 1943C	SS 1941
ALLIED	Y/N	Y	Y	Y	Y	Y	Y
SEAPLANE	Y/N	N	N	N	N	N	N
SHIP TYPE	0-4	2	2	2	2	2	3
MAXIMUM SPEED	0-45	37	20	24	23	20	21
DISPLACEMENT	0-31	1	1	1	1	1	1
HEAVY AA	0-31	6	2	2	2	2	0
LIGHT AA	0-31	5	2	2	3	2	1
ARMOUR	0-15	0	0	0	0	0	0
PRIMARY GUNS	0-15	0	0	0	0	0	0
SECONDARY GUNS	0-15	3	0	0	1	0	1
TORPEDO TUBES	0-15	10	0	2	3	3	10
VULNERABILITY	0-7	4	3	3	3	3	5
ANTI-SUBMARINE	0-7	4	5	6	6	6	0
TORPEDO LOADS	0-3	1	0	1	1	1	2

NOTES TO US SHIP CLASSES

1. A complete list of the pennant numbers of US destroyer escorts and submarines is provided; however, only a representative selection from each class have been named.
2. The Midway class carriers (CVB 1945) had a normal air capacity of just on 140 aircraft. 127 is the maximum value the creation routine will accept.

COMMONWEALTH SHIP CLASSES - A CARRIERS AT WAR DESIGN FEATURE

NUMBER IN CLASS	#	1(36,3)	2(48,3)	1(60,4)	3(33,3)	1(45,4)	2(60,5)	1(21,2)	1(20,2)	1(20,2)	1(35,2)	4(42,3)
SHIP CLASS NAME	[8]	CV 1922	CV 1924	CV 1935	CV 1937A	CV 1937B	CV 1939	CVL1913	CVL1914	CVL1918	CVL1939	CVL1942
ALLIED	Y/N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
SEAPLANE	Y/N	N	N	N	N	N	N	N	N	N	N	N
SHIP TYPE	0-4	0	0	0	0	0	0	0	0	0	0	0
MAXIMUM SPEED	0-45	31	31	31	31	31	32	24	20	25	24	25
DISPLACEMENT	0-31	11	11	11	12	12	13	11	6	5	8	7
HEAVY AA	0-31	12	16	16	16	16	16	4	6	3	8	0
LIGHT AA	0-31	3	3	4	6	6	6	2	1	2	6	11
ARMOUR	0-15	3	3	5	5	5	5	5	0	3	0	0
PRIMARY GUNS	0-15	0	0	0	0	0	0	0	0	0	0	0
SECONDARY GUNS	0-15	0	0	0	0	0	0	12	0	6	0	0
TORPEDO TUBES	0-15	0	0	0	0	0	0	0	0	0	0	0
VULNERABILITY	0-7	2	3	4	5	4	6	3	2	4	4	5
ANTI-SUBMARINE	0-7	0	0	0	0	0	0	0	0	0	0	0
TORPEDO LOADS	0-3	0	0	0	0	0	0	0	0	0	0	0

NUMBER IN CLASS	#	1(6,1)	1(12,1)	1(16,2)	3(15,2)	8(24,2)	1(18,2)	2(18,2)	26(24,2)	19(4,1)	5	5
SHIP CLASS NAME	[8]	CVE1938A	CVE1938B	CVE1938C	CVE1939	CVE1941A	CVE1941B	CVE1942A	CVE1942B	CVM1942	BB 1912	BB 1913
ALLIED	Y/N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
SEAPLANE	Y/N	N	N	N	N	N	N	N	N	N	Y	N
SHIP TYPE	0-4	0	0	0	0	0	0	0	0	0	1	1
MAXIMUM SPEED	0-45	15	17	17	17	18	17	16	18	12	24	22
DISPLACEMENT	0-31	4	9	5	6	6	6	6	6	3	15	14
HEAVY AA	0-31	2	4	3	3	2	2	2	2	1	8(10a,20b)	8
LIGHT AA	0-31	2	4	2	2	5	6	6	8	2	2(4a,6b)	2
ARMOUR	0-15	0	0	0	0	0	0	0	0	0	13	13
PRIMARY GUNS	0-15	0	0	0	0	0	0	0	0	0	8	8
SECONDARY GUNS	0-15	0	0	0	0	0	0	0	1	0	14(8a,0b)	12
TORPEDO TUBES	0-15	0	0	0	0	0	0	0	0	0	0	0(4a)
VULNERABILITY	0-7	2	2	2	2	3	2	2	1	1	4(5a,6b)	5(4a)
ANTI-SUBMARINE	0-7	0	0	0	0	0	0	0	0	0	0	0
TORPEDO LOADS	0-3	0	0	0	0	0	0	0	0	0	0	0(3a)

COMMONWEALTH SHIP CLASSES (CONT.)

NUMBER IN CLASS	#	2	5	1	2	1	3	7	4	1	2	1
SHIP CLASS NAME	[8]	BB 1922	BB 1937	BB 1941	BC 1915	BC 1916	CA 1916	CA 1924	CA 1926	CA 1927A	CA 1927B	CA 1928
ALLIED	Y/N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
SEAPLANE	Y/N	Y	Y	N	Y	N	N	Y(Na)	Y	Y	Y	Y
SHIP TYPE	0-4	1	1	1	1	1	1(2a)	1	1	1	1	1
MAXIMUM SPEED	0-45	23	28	30	31	31	30	32	32	32	32	32
DISPLACEMENT	0-31	17	17	20	14(16a)	18	5	6	6	4	6	4
HEAVY AA	0-31	6	16	16	20(6a)	8	4(5b)	8	8	4	8	4
LIGHT AA	0-31	3	4	19	3(2a)	5	0(2b)	2(1d)	0	1	2	0
ARMOUR	0-15	14	15	14	9(7a)	12	3	5(4c)	4	4	4	4
PRIMARY GUNS	0-15	9	10	8	6	8	7(0a,5b)	8	8	6	8	6
SECONDARY GUNS	0-15	12	8	8	10(12a)	6	0(9a)	4	4	2	4	2
TORPEDO TUBES	0-15	2	0	0	8	4	6(4a)	0(8b)	8	6	8	6
VULNERABILITY	0-7	6	7	7	4(5a)	4	3(4a)	4	5	5	6	5
ANTI-SUBMARINE	0-7	0	0	0	0	0	0	0	0	0	0	0
TORPEDO LOADS	0-3	3	0	0	3	3	2	0(2b)	2	2	2	2

NUMBER IN CLASS	#	56	1	3	5	8	5	2	5	4	3	5
SHIP CLASS NAME	[8]	AMC misc	CL 1912	CL 1916A	CL 1916B	CL 1916C	CL 1917	CL 1918	CL 1931	CL 1933A	CL 1933B	CL 1934
ALLIED	Y/N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
SEAPLANE	Y/N	N	N	N	N	N	N	Y	Y	Y(Nc)	Y	Y
SHIP TYPE	0-4	4	2	2	2	2	2	2	2	2	2	2
MAXIMUM SPEED	0-45	14-18	24	29	29	29	29	33	33	32	33	32
DISPLACEMENT	0-31	4-10	2	2	2	2	2	4	4	4	4	5
HEAVY AA	0-31	0-2	3	1	1(8a)	3	1(8a)	5	8(4a)	4(8a)	4	8
LIGHT AA	0-31	1-2	0	1	1	1	2	2	1	1(0b)	1	2
ARMOUR	0-15	0	3	3	3	3	3	3	4	2	4	5
PRIMARY GUNS	0-15	0	0	0	0	0	0	0	0	0	0	0
SECONDARY GUNS	0-15	4-9	8	5	5(4a)	6	5(4a)	7	8	6	8	12
TORPEDO TUBES	0-15	0-4	0	8	8(0a)	12	8(0a)	15	8	6	8	6
VULNERABILITY	0-7	1	3	3	3(4a)	3	3(4a)	4	5	5	6	5
ANTI-SUBMARINE	0-7	0	0	0	0	0	0	0	0	0	0	0
TORPEDO LOADS	0-3	0-1	0	2	2(0a)	1	2(0a)	1	2	2	2	2

NUMBER IN CLASS	#	3	2	11	11	5	2	10	2	20	14	18
SHIP CLASS NAME	[8]	CL 1936A	CL 1936B	CL 1937	CL 1938	CL 1939	CL 1941	DD 1917	DD 1924	DD 1928	DD 1930	DD 1933
ALLIED	Y/N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
SEAPLANE	Y/N	Y	Y	N	Y(Nb)	N	N	N	N	N	N	N
SHIP TYPE	0-4	2	2	2	2	2	2	2	2	2	2	2
MAXIMUM SPEED	0-45	32	33	32	32	32	32	34	37	35	36	36(37a)
DISPLACEMENT	0-31	5	6	3	4	3	5	1	1	1	1	1
HEAVY AA	0-31	8	12	10(8a)	8	8	10	1	0	0	1	0
LIGHT AA	0-31	2	3	1	3(2a)	2	4	0	1	1	1	1
ARMOUR	0-15	5	5	3	4	3	4	0	0	0	0	0
PRIMARY GUNS	0-15	0	0	0	0	0	0	0	0	0	0	0
SECONDARY GUNS	0-15	12	12	5(4a)	9(12a)	4	9	2	2	2(3a)	2	2(3a)
TORPEDO TUBES	0-15	6	6	6	6	6	6	4	6	8	8	8
VULNERABILITY	0-7	2	6	5	6	6	6	3	4	4	4	5
ANTI-SUBMARINE	0-7	0	0	0	0	0	0	1	1	1	1	1
TORPEDO LOADS	0-3	2	2	2	2	2	2	1	1	1	1	1

NUMBER IN CLASS	#	27	27	24	16	16	16	40	16	9	12	44
SHIP CLASS NAME	[8]	DD 1934	DD 1936	DD 1937	DD 1938	DD 1939	DD 1940	DD 1941	DD 1942A	DD 1942B	DE 1916	DE 1917
ALLIED	Y/N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
SEAPLANE	Y/N	N	N	N	N	N	N	N	N	N	N	N
SHIP TYPE	0-4	2	2	2	2	2	2	2	2	2	2	2
MAXIMUM SPEED	0-45	37	36	36	36	37	37	37	37	36	36	34
DISPLACEMENT	0-31	1	1	1	1	1	1	1	1	1	0	1
HEAVY AA	0-31	0	8(6a)	6	6(8a)	4 or 5	4	4	4	4	1	1(4a)
LIGHT AA	0-31	1	1	2	2	1	2	2	2	3	1(0a)	0(1a)
ARMOUR	0-15	0	0	0	0	0	0	0	0	0	0	0
PRIMARY GUNS	0-15	0	0	0	0	0	0	0	0	0	0	0
SECONDARY GUNS	0-15	2(3a)	4(3a)	3	3(0a)	0	2	2	2	2	1(2a)	2(0a)
TORPEDO TUBES	0-15	8(10b)	4	10	8	8 or 4	8	8	8	8	0(4a)	3(0a)
VULNERABILITY	0-7	5	5	5	6	5	6	6	7	7	3	3(4a)
ANTI-SUBMARINE	0-7	2	2	3	3(5a)	4	4	5	5	4	3(1a)	3(0a)
TORPEDO LOADS	0-3	1	1	1	1	1	1	1	1	1	0(1a)	1(0a)

NUMBER IN CLASS	#	50	23	33	28	2	1(4,3)	2(4,4)	6(6,3)	5(6,4)	4(6,4)	4(4,5)
SHIP CLASS NAME	[8]	DE 1918	DE 1939A	DE 1939B	DE 1940	DE 1941	SS 1924	SS 1925	SS 1927	SS 1928	SS 1929	SS 1930
ALLIED	Y/N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
SEAPLANE	Y/N	N	N	N	N	N	N	N	N	N	N	N
SHIP TYPE	0-4	2	2	2	2	2	3	3	3	3	3	3
MAXIMUM SPEED	0-45	35	28	27	27	26	14	15	18	18	18	14
DISPLACEMENT	0-31	0	1	1	1	1	1	1	1	1	1	0
HEAVY AA	0-31	1	4	6	4	6	0	0	0	0	0	0
LIGHT AA	0-31	1	1	2	2	1	0	0	1	1	1	1
ARMOUR	0-15	0	0	0	0	0	0	0	0	0	0	0
PRIMARY GUNS	0-15	0	0	0	0	0	0	0	0	0	0	0
SECONDARY GUNS	0-15	2	0	0	0	0	1	1	1	1	1	1
TORPEDO TUBES	0-15	3	0	0	2	3	8	8	8	8	8	6
VULNERABILITY	0-7	3	5	5	5	5	2	2	2	3	4	3
ANTI-SUBMARINE	0-7	3	3	3	2	2	0	0	0	0	0	0
TORPEDO LOADS	0-3	1	0	0	1	1	2	2	2	2	2	2

NUMBER IN CLASS	#	3(4,5)	6(4,4)	8(4,5)	15(4,4)	3(2,5)	16(4,4)	46(3,5)	33(5,4)	17(5,4)	8(5,4)	22(4,5)
SHIP CLASS NAME	[8]	SS 1931A	SS 1931B	SS 1933	SS 1936	SS 1937	SS 1939A	SS 1939B	SS 1940	SS 1941	SS 1942A	SS 1942B
ALLIED	Y/N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
SEAPLANE	Y/N	N	N	N	N	N	N	N	N	N	N	N
SHIP TYPE	0-4	3	3	3	3	3	3	3	3	3	3	3
MAXIMUM SPEED	0-45	22	16	15	15	11	15	11	15	15	15	11
DISPLACEMENT	0-31	1	1	0	1	0	1	0	0	1	0	0
HEAVY AA	0-31	0	0	0	0	0	0	0	0	0	0	0
LIGHT AA	0-31	1	1	1	1	1	1	1	1	1	1	1
ARMOUR	0-15	0	0	0	0	0	0	0	0	0	0	0
PRIMARY GUNS	0-15	0	0	0	0	0	0	0	0	0	0	0
SECONDARY GUNS	0-15	1	1	1	1	1	1	0	1	1	1	1
TORPEDO TUBES	0-15	6	6	6	10	6	11	4	7	11	6	4
VULNERABILITY	0-7	4	4	4	5	4	4	5	5	5	5	6
ANTI-SUBMARINE	0-7	0	0	0	0	0	0	0	0	0	0	0
TORPEDO LOADS	0-3	2	2	2	2	2	2	2	2	2	2	2

Questions and Answers

A forum of advice for our customers

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indications of an ultimate truth, something that will not be known until the end of the game. Use them in conjunction with other evidence and your own hunches as to what happened, but never trust them. Obviously, as you play more games you will get better at reading between the lines.

Unless you are a masochist or in a multi-player game, the effort of playing the land theatres is probably not worth it. Let the computer remember to wake up the bomber crews at 3 a.m., you have better things to do. Sighting reports are more reliable in one sense; there will be something there. Whether it is the CV's

typically reported is another matter. However, this imprecision can be used to your advantage. Any admiral of the time would gladly have swapped two capital ships for two enemy carriers. Use your capital ships to screen your carriers. They stand a good chance of being reported as carriers and might suck in a strike. This has lots of advantages.

Capital ships, especially battleships, are less vulnerable than carriers, and will shoot down their share of planes. The first strike from a carrier is always the most efficient simply because the act of launching has guaranteed casualties as planes get lost, are hit by flak or damaged/lost on landing, and if you can absorb that first strike without losing either planes or carriers yourself, you have definitely shifted the odds in your favour.

You may find yourself in an ideal position for a counter strike since the enemy will have to go on station (i.e. remain in the same hex) for an absolute minimum of two hours until their strike returns. Even if you don't spot the enemy carriers, you should have a much better idea of where they are, while they may have no idea where you are.

Keep a close watch on the status of your task groups, the 'spotted' flag indicates that you have seen the enemy search plane who has spotted you. (This is by no means guaranteed to happen, you will often remain blissfully unaware of your new status as a target.) If you are spotted, and think the enemy is inside his strike range, you must act. Is there some bad weather you can hide in? Are there substitutes you can leave behind while the carriers try to get away (transports or oilers will do as well as capital ships)? If not, you are in trouble.

Try to launch your strikes at targets within normal range of your torpedo bombers and your fighter escort. Strikes are best done as 'cohesive' unless there are overwhelming reasons. Unescorted strikes up against CAP have a tough time, and the bombing efficiency of the survivors will be reduced. If you have to change search pattern arcs during play, it's best to do it at night time to minimize the confusion which may occur during the change over.