

Blue and Orange Fleets June 1936

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Serial No. 9

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BLUE and ORANGE FLEETS

(TEC-1B-36)

JUNE, 1936

(Cancels Edition of June, 1935)

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DECLASSIFICATION OF WWII RECORDS



DEPARTMENT OF INTELLIGENCE
Naval War College
Newport, R. I.

BLUE and ORANGE FLEETS

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DEPARTMENT OF INTELLIGENCE
Naval War College
Newport, R.I.
June, 1936

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H. D. COOKE
Captain, U. S. Navy
Chief of Staff.

Naval War College
Newport, R.I.
June, 1936.

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<u>Part I</u> <u>Ship Data</u>	<u>Part II</u> <u>Fuel Expenditure</u>
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Auxiliaries, ORANGE:

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Gunboats	22	36
Minesweepers	22	36
Colliers	24	36
Destroyer Tenders	24	36
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WAR COLLEGE CLASSIFICATION OF VESSELS

June, 1936

Class of Ship	Class Designation
BATTLESHIP	BB
MONITOR	BM
BATTLE CRUISER	CC
HEAVY CRUISER	CA
LIGHT CRUISER	CL
FLYING-DECK CRUISER	CF
AIRCRAFT CARRIER	CV
MINE LAYER	CM
DESTROYER LEADER	DL
DESTROYER	DD
LIGHT MINELAYER	DM
SUBMARINE	SS
MINELAYING SUBMARINE	SM
PATROL VESSELS Eagle Type	PE
Sub-Chaser	PC
Gunboat	PG
Sloop	PS
Yacht	PY
AUXILIARIES Destroyer Tender	AD
Submarine Tender	AS
Submarine Rescue Vessel	ASR
Aircraft Tender (heavier than air)	AV
Airship Tender (lighter than air)	AZ
Repair Ship	AR
Provision Storeship	AP
Collier	AC
Oiler	AO
Ammunition Ship	AE
Cargo Ship	AK
Transport	AP
Hospital Ship	AH
Ocean-Going Tug	AT
Mine Sweepers	AM
Miscellaneous	AG
District Craft	Y

X BEFORE ANY CLASS DESIGNATION REPRESENTS AUXILIARY TYPE
 O " " " " " " OBSOLESCENT VESSELS

AIRCRAFT

Class Designation

	: :Heavier than : Air	: : Rigid : airship	: : Non-rigid : airship	: : Kite balloon : and balloon
H - Ambulance	VH			
O - Observation	VO		ZNO	ZKO
F - Fighting	VF			
T - Torpedo and Bombing	VT			
S - Scouting	VS	ZRS	ZNS	
P - Patrol	VP	ZRP	ZNP	
J - Utility	VJ			
N - Training	VN	ZRN	ZNN	ZKN
B - Bombing	VB			
R - Transport	VR			

ABBREVIATED TITLES

(United States Fleet Letter No. 8-31. United States Fleet Radio Communication Instructions, Radio Frequency Plans, 1 April, 1931).

The abbreviated titles shown below are authorized for use in official correspondence and dispatches where brevity is desirable:

<u>Title</u>	<u>Written</u>	<u>Title</u>	<u>Written</u>
Commander-in-Chief, U.S. Fleet	Cincus	Commander Destroyer Division	Comdesdiv
Commander Battle Force	Combatfor	Destroyer Division	Desdiv
Battle Force	Batfor	Commander Aircraft, U.S. Fleet	Comairus
Commander Scouting Force	Comscofor	Aircraft, U.S. Fleet	Airus
Scouting Force	Scofor	Commander Aircraft, Battle Force	Comairbatfor
Commander Submarine Force	Comsubfor	Aircraft, Battle Force	Airbatfor
Submarine Force	Subfor	Commander Aircraft, Scouting Force	Comairscofor
Commander Base Force	Combasefor	Aircraft, Scouting Force	Airscofor
Base Force	Basefor	Commander Carrier Division	Comcardiv
Commander Battleships, U.S. Fleet	Combatus	Carrier Division	Cardiv
Battleships, U.S. Fleet	Batus	Commander Minecraft, U.S. Fleet	Cominus
Commander Battleships, Battle Force	Combatships	Minecraft, U.S. Fleet	Minus
Battleships, Battle Force	Batships	Commander Minecraft, Battle Force	Cominbatfor
Commander Battleship Division	Combatdiv	Minecraft, Battle Force	Minbatfor
Battleship Division*	Batdiv*	Commander Mine Squadron	Cominron
Commander Cruisers, U.S. Fleet	Comcrusus	Mine Squadron	Minron
Cruisers, U.S. Fleet	Crusus	Commander Mine Division	Comindiv
Commander Cruisers, Scouting Force	Comcruscofor	Mine Division	Mindiv
Cruisers, Scouting Force	Cruscofor	Commander Training Squadron	Comdrillron
Commander Cruisers, Battle Force	Comcrubatfor	Training Squadron	Drillron
Cruisers, Battle Force	Crubatfor	Commander Submarine, U.S. Fleet	Comsubus
Commander Cruiser Division	Comcrudiv	Submarines, U.S. Fleet	Subus
Cruiser Division	Crudiv	Commander Submarine Squadron	Comsubron
Commander Destroyers, U.S. Fleet	Comdesus	Submarine Squadron	Subron
Destroyers, U.S. Fleet	Desus	Commander Submarine Division	Comsubdiv
Commander Destroyers, Battle Force	Comdesbatfor	Submarine Division	Subdiv
Destroyers, Battle Force	Desbatfor	Commander Train Squadron	Comtrainron
Commander Destroyers, Scouting Force	Comdescofor	Train Squadron	Trainron
Destroyers, Scouting Force	Descofor	Commander-in-Chief, Asiatic Fleet	CinAsiatic
Destroyer Flotilla	Desflot	Commander Yangtze Patrol	Comyangpat
Commander Destroyer Squadron	Comdesron	Yangtze Patrol	Yangpat
Destroyer Squadron**	Desron**	Commander South China Patrol	Sopatoom
		South China Patrol	Sopat
		Commander Special Service Squadron	Comsperon
		Special Service Squadron	Speron

Notes: *"Divisions" will be abbreviated "Divs".
**"Squadrons" will be abbreviated "Rons".

PREFACE

1. To make the problems studied at the Naval War College more interesting, and to familiarize officers with the characteristics and capabilities of existing ships, it is desirable to use in such studies the actual types and numbers of ships in our own navy and in such other navies as may be selected as the opposing force in these hypothetical problems. This pamphlet is intended only for such use.

2. Classification. - Vessels are classified in this pamphlet in accordance with the classification given on page b.

3. Reliability. - Data entered without comment may be taken as reasonably reliable. Where information is doubtful or lacking, the data required for War College use has been estimated or assumed, and is indicated by one of the following symbols:

- ? - Doubtful or unconfirmed
- e - Estimated
- a - Assumed
- x - Approximate

SHIP DATA

4. Part I, Ship Data, includes all U.S. naval ships built, building, projected or allowed by the London Treaty, except some small craft of no value in fleet operations.

5. In the ship data tables, vessels which have common characteristics are grouped together. The data shown for the first vessel of a group applies to all vessels of the group, unless otherwise shown.

6. Displacement - The figures given are for Standard Displacement (Tonnage) for combatant vessels and some auxiliaries. The figures for other vessels are in most cases for gross displacement.

7. Date. - The dates given show the year completed or to be completed.

8. Speed. - The figures given are for maximum individual speed under favorable conditions, at normal displacement.

9. Drive. - The following symbols are used to indicate the various types of propulsion:

- R - Reciprocating
- T - Turbine
- G - Geared turbine
- E - Electric
- C - Internal combustion
- TR - Turbine. Reciprocating cruising engine
- TG - Turbine. Geared cruising turbine
- TC - Turbine. I.C. cruising engine
- CE - Internal-combustion electric

10. Fuel. - Figures given are for maximum bunker capacity, in tons of 2240 pounds. For submarines, two figures are given, one for normal and one for emergency capacity. Symbols used to indicate kind of fuel:

- Oil, unless otherwise shown
- # - Coal
- g - Gasoline

11. Radius. - Figures given are for radius at economical and best sustained speeds, at maximum fuel capacity.

12. Armament. - Symbols used here are:

- m - Machine guns
- h - High-angle (anti-aircraft guns)
- d - Deck Tubes
- s - Submerged Tubes

The range of all guns is given in Part III.

13. Armor. The figures given are for the thickness of the side armor and the thickness of the horizontal armor protecting the vitals. For vessels of more than one armored deck, the aggregate thickness of horizontal armor has been reduced to a figure of virtual thickness intended to indicate the protective equivalent in a single thickness.

14. Aircraft. - The data given as to catapults and number and type of planes carried by each ship is based either on what such vessels actually carry now, or on what they might reasonably be expected to carry in war. Symbols used include: "Cat." for catapult and VO, VF, etc., to indicate types of planes.

FUEL EXPENDITURE TABLES

15. Part II, Fuel Expenditure Tables, gives for all completed ships the data for maximum bunker fuel, in tons; port expenditure, in tons per day; sea expenditure at various speeds, in tons per hour.

16. For vessels burning both coal and oil, the total fuel has been reduced to its equivalent in either coal or oil, on the basis of 100 tons of oil equals 136 tons of coal, and expenditure figures are on the basis of coal or oil.

17. Fuel expenditure at the different speeds are those for good conditions; smooth sea, clean bottom, vessel at normal displacement. For approximate estimates for average conditions they should be increased 5% for large vessels, 10% for others. For foul bottoms, or unfavorable conditions of sea or wind, they should be further increased.

18. In the Chart Maneuver, sea expenditure figures are increased as prescribed by the rules to account for:

- (1) Maintaining reserve steam,
- (2) Sea effect,
- (3) Foul bottom,
- (4) Over-draft,
- (5) Paravanes,
- (6) Towing, and
- (7) Station-keeping in formation.

ORDNANCE DATA

19. Part III, Ordnance Data, gives ballistic data on guns, types of torpedoes and mines, fire control data, ammunition allowances, ship bomb and torpedo allowances, and aircraft organization.

AIR DATA

20. Air Data, published under separate cover, "Aircraft Characteristics" gives more detailed data on the tactical characteristics of aircraft types in our own service.

ERRORS

21. It is requested that errors and discrepancies discovered in this pamphlet be reported to the Secretary of the War College.

BLUE and ORANGE FLEETS

June, 1936

Part I

Ship Data

NOTE: The Vinson Bill of 1934 authorizes the construction of 99,200 tons of destroyers, 35,530 tons of submarines, one 15,000 ton aircraft carrier, and to procure necessary aircraft commensurate with a treaty navy.

Only such ships as have been appropriated for will be shown in the BLUE Fleet.

NAME	NO.	DATE	SIZE	STAND. TON- NAGE	SPEED and DRIVE	FUEL Long Tons	SPEED RADIUS Sustained	SPEED RADIUS Economical	COMP Ship Flag	LIFE	ARMOR Side Deck	GUNS						TORPEDOES				MINES		AIR		
												No.	Cal.	R A N G E	NUMBER			End Arc	No. Type	Tubes		Moored Drifting D.C.				
															Side	Bow	Strn.			Total	Side					
BB																										
BATTLESHIPS																										
Treaty Tonnage																										
WEST VIRGINIA	48	1923	L	31800	21 E	4680	18	9900	10	21100	1344	18.5	13.5	8	16"/45	33	8	4	4	30°	0	0	0	0	0	2 Cat
MARYLAND	46	1921		31500							100		3.42	12	5"/51	17	6	4	2							3 VO
COLORADO	45	1923		32500										8	5"/25h	14	4	2	2							
														8	0.50/63mh											
CALIFORNIA	44	1921	L	32600	21 E	4750	18	9700	10	20500	1344	17.7	13.5	12	14"/50	34	12	6	6	30°	0	0	0	0	0	2 Cat
TENNESSEE	43	1920		32300							100		3.42	12	5"/51	17	6	4	2							3 VO
														8	5"/25h	14	4	2	2							
														8	0.50/63mh											
IDAHO	Mod.42	1919	L	33800	21 G	5409	18	8820	10	20500	1304	17.3	13.5	12	14"/50	34	12	6	6	30°	0	0	0	0	0	2 Cat
MISSISSIPPI	Mod.41	1917		33000							1344		4.87	12	5"/51	17	6	4	2							3 VO
NEW MEXICO	Mod.40	1918		33100							1304			8	5"/25h	14	4	2	2							
														8	0.50/63mh											
ARIZONA	Mod.39	1916	L	32600	20.7TG	5568	18	12200	10	20100	1304	17.1	13.5	12	14"/45	33	12	6	6	30°	0	0	0	0	0	2 Cat
PENNSYLVANIA	Mod.38			33100	20.8TG							17.2	3.96	12	5"/51	17	6	4	2							3 VO
														8	5"/25h	14	4	2	2							
														8	0.50/63mh											
OKLAHOMA	Mod.37	1916	L	29000	19.6 R	4876	17	8700	10	16750	1260	16.1	13.5	10	14"/45	33	10	5	5	30°	0	0	0	0	0	2 Cat
NEVADA	Mod.36				20.2 G	4705	17	10100	10	19900			4.18	12	5"/51	17	6	4	2							3 VO
														8	5"/25h	14	4	2	2							
														8	0.50/63mh											
TEXAS	Mod.35	1914	L	27000	20.2 R	5194	17	8000	10	17850	1260	15.5	12"	10	14"/45	22	10	4	4	30°	0	0	0	0	0	1 Cat
NEW YORK	Mod.34				19.7 R		17	9400	10	20500	110		3.42	16	5"/51	15	8	3	3							3 VO
														8	3"/50h	10	4	1	1							
														8	0.50/63mh											
ARKANSAS	Mod.33	1912	L	26100	20.4 T	5160	18	7000	10	14000	1250	15.3	11"	12	12"/50	23	12	4	4	30°	0	0	0	0	0	1 Cat
													3.42	16	5"/51	15	8	2	3							3 VO
														8	3"/50h	10	4	2	1							
														8	0.50/63mh											
																				(1) (2)						
Mod. - Modernized.																										
CV																										
AIRCRAFT CARRIERS																										
Treaty Tonnage																										
Enterprise	6	1937	L*	20000	32.5	5247	30	3045	12	14000	1000	6.8	4"	8	5"/38h	17	4	2	2	30°	36E	0	0	0	0	18V
Yorktown	5	1936				e		e		e	e		1.47	16	17.1h						(3)					18VB
						(4)								24	0.50/63mh											18VS
																										18VT
																										**2VS
RANGER	4	1934	L*	14500	29.3	3630	26	4310	10	18300	900	5.6	0"	8	5"/25h	14	4	2	2	30°	0	0	0	0	0	36V
						(4)		e		e	e		0"	40	0.50/63mh											18VS
																										18VT
																										**2VS
SARATOGA	3	1927	L	33000	33 E	6830	30	3200	12	11000	1266	15.5	7" ***	8	8"/55	30	8	4	4	30°	64E	0	0	0	0	18V
LEXINGTON	2					(4)							1.55	12	5"/25h	14	6	3	3		(3)					18VB
														16	17.1h											(5) 36V
														24	0.50/63mh											(6) 18V
																										**2VS
LANGLEY (7)	1	1913	L*	11500	15 E	1920	13	6800	10	9100	361	4.1	0"	4	5"/51	17	2	1	1	30°	0	0	0	0	0	0
						(4)							0"													(8)
																				(1) (2)						
Notes:- By treaty, 14,500 tons are allowable for CV-7.												(4) Fuel for planes - CV-4,5 and 6, 90,000e gallons; CV-2 and 3, 140,000 gals. and CV-1, 60,000 gals. Aviation gasoline, not including capacity of plane tanks.														
*Classed as large size for gunfire and visibility, Rule A-2.												(5) LEXINGTON only; SARATOGA has only 18 VB.														
**Equipped with special radio for liaison duty with VF and VB squadrons.												(6) SARATOGA only.														
***Inclined 10°.												(7) Experimental, may be replaced. To be used for training purposes only.														
(1) Number of guns capable of firing in arc from dead ahead to 30° on bow.												(8) Can carry 18 VF and 18 VB or VT.														
(2) Number of guns capable of firing in arc from dead astern to 30° on quarter.																										
(3) For torpedo planes only.																										

CA - CL

[illegible]

CL

[illegible]

*Turret guns 22, others 18.
 **Number of guns differ. Grouped for convenience.
 (1) Number of guns capable of firing in arc from dead ahead to 30° on bow.
 (2) Number of guns capable of firing in arc from dead astern to 30° on quarter.
 (3) Twin mounts in GLs 49, 50.
 (4) Carry two (2) additional VS in crates.

NAME	NO.	DATE	SIZE	STAND. TON- NAGE	SPEED and DRIVE	FUEL Long Tons	SPEED RADIUS Sustained	SPEED RADIUS Economical	COMP. <u>Ship</u> <u>Flag</u>	LIFE	ARMOR <u>Side</u> <u>Deck</u>	GUNS								TORPEDOES			MINES	AIR
												No.	Cal.	R A N G E	NUMBER			End Arc	No. Type	Tubes		<u>Moored</u> <u>Drifting</u> D.C.		
															Side	Bow	Sta.			Total	Side			

CA, CL

CRUISER CLASS
Treaty Tonnage - Heavy Cruisers

MAYA	39	1932	Int	9850	33 G	3000	30	3100	10	8000	692	4.6	4"	10	8"/50	31	10	4	4	30°	36 B	12d*	6d	50 e	2 Cat
CHOKAI	38					e				a	725 e		1725	4**	47/45h	19				(21")				0	4 VS
TAKAO	37													8	0:50/63mh										
ATAGO	36																								
ASHIGARA	35	1929		10000								4.7	*CAs	36-39	have 8 torpedo tubes (4 on side) and 24 torpedoes only.										
HAGURO	34												**CAs	32-35	have 6-47/45h guns.										
NACHI	33	1928																							
MYOKO	32	1929																							
AOBA	31	1927	S	7100	33 G	400#	30	2200	10	6000	604	3.7	175	6	8"/50	27	6	4	2	30°	36 B	12d	6d	50 e	2 Cat
KINUGASA	30					(1200				e	630 e		2"	4	47/45h	19				(21")				0	2 VS
KAKO	29	1926												4	0:50/63mh		6	2	2	30°					
FURUTAKA	28																								

CL

Treaty Tonnage - Light Cruisers

Chikuma	45	Bldg.	Int	8500	33 G	1900	30	2910	10	12660	604	4.2	175	15 (1)	6"/50	23	15	6	6	30°	12 G	12d	6d	0	1 Cat
Tone	44					a		e		e	630 e		175	8 (2)	47/45h	19									2 VS
Kumano	43	1937												8	0:50/63mh										
MOGAMI	42	1935																							
MIKUMA	41																								
Suzuya	40	Bldg.												(1) Reported to be a 6.1 gun. Performance assumed the same as the new 6"/50 gun.											
														(2) Reported to be 5" AA gun. No data available.											
NAKA	27	1925	S	5195	33 G	300#	30	2100	10	6000	450	3.0	275	7	5.5/50	20	6	3	1	30°	24 B	8d	4d	80 e	1 Cat
JINTSU	26					(1200				e	475 e		0	2	3"/40h	7				(21")				0	2 VS
SENDAI	25	1924												4	0:50/63mh										
ABUKUMA	24	1925	S	5170	33 G	300#	30	2100	10	6000	438	3.0	275	7	5.5/50	20	6	3	1	30°	24 B	8d	4d	80 e	1 Cat
YURA	23	1923				(1200				e			0	2	3"/40h	7				(21")				0	2 VS
KINU	22	1922												4	0:50/63mh										
NATORI	21																								
NAGARA	20																								
ISUZU	19	1923																							
YUBARI	18	1923	S	3010	33 G	800	30	1800	10	6000	328	2.0	2"	6	5.5/50	20	6	3	3	30°	12 B	4d	4d	50 e	2 VS
										a			0	1	3"/40h	7				(21")				0	
														4	0:50/63mh										
To be scrapped by 31 Dec. 1936 - Light Cruisers																									
OI	16	1921	S	5100	33 G	300#	30	2100	10	6000	440	3.0	275	7	5.5/50	20	6	3	1	30°	24 C	8d	4d	80 e	1 Cat
KISO	15					(1200				x			2"	3	3"/40h	7				(21")				0	2 VS
KITAGAMI	14													4	0:50/63mh										
TAMA	13																								
KUMA	12	1920												CL-13	has 2 Depth Charge Projectors and carries about 24 Depth Charges.										
TENRYU	11	1919	S	3230	31 G	200#	28	2200	10	6000	332	2.3	175	4	5.5/50	20	4	1	1	30°	18 C	6d	6d	80 e	2 VS
TATSUTA	10					(700				e			0	1	3"/40h	7				(21")				0	
														2	0:50/63mh										
YAHAGI	9	1912	S	4400	26 T	900#	23	2800	10	6000	452	2.9	4"	8	5.1/50	18	5	3	3	25°	9 C	3d	2d	0	2 VS
HIRATO	8					(300							3"	2	3"/40h	5				(21")					
														2	3"/40h	7									
														4	0:50/63mh										

(3) (4)

- (3) Number of guns capable of firing in arc from dead ahead to limit of end arc.
- (4) Number of guns capable of firing in arc from dead astern to limit of end arc.

NAME	NO.	DATE	SIZE	STAND. TON- NAGE	SPEED and DRIVE	FUEL Long Tons	SPEED RADIUS Sustained	SPEED RADIUS Economical	COMP. Ship Flag	LIFE	ARMOR Side Deck	GUNS				TORPEDOES				MINES Moored Drifting D. C.	AIR				
												No.	Cal.	R A N G E	NUMBER			End Arc	No. Type			Tubes			
															Side	Bow	Stn.					Total	Side		
DL, DD																									
DESTROYER CLASS																									
Treaty Tonnage - Destroyer Leaders*																									
INADZUMA	23	1932	Des	1700	34 G	450	30	1000	12	3500	197	1.4	0	6	5:1/50	18	6	2	4	30°	12 G (21")	9d	9d	50**	0
IKAZUCHI	22					a		e		e				8	0:50/63mh									47	
HIBIKI	21	1933													Depth Charge									50	
AKATSUKI	20	1932													Projector ?	1									
OBORO	19																								
AKEBONO	18																								
USHIO	17																								
SAZANAMI	16																								
SAGIRI	15																								
YUGIRI	14																								
SHIKINAMI	13	1929																							
AMAGIRI	12	1931																							
ASAGIRI	11																								
AYANAMI	10	1930																							
URANAMI	9	1929																							
ISONAMI	8	1928																							
SHIRAKUMO	7																								
USUGUMO	6																								
SHINONOME	5																								
MURAKUMO	4	1929																							
HATSUYUKI	3																								
SHIRAYUKI	2	1928																							
FUBUKI	1																								
DD																									
Treaty Tonnage - Destroyers																									
No. 84	124	Appr.	Des	1460	34 G	350	30	1100	12	3500	150														

Note:- Destroyers below and including number 347 have had speed arbitrarily reduced by 3 knots because of age, increased loading, or both.

ORANGE FLEET - Part I																		Page 8					
NAME	NO.	DATE	SIZE	STAND. TON- NAGE	SPEED and DRIVE	FUEL Long Tons	SPEED RADIUS Sustained	SPEED RADIUS Economical	COMP Ship Flag	LIFE	ARMOR Side Deck	GUNS							TORPEDOES			MINES Moored Drifting D.C.	AIR
												No.	Cal.	R A N G E	NUMBER			End Arc	No. Type	Tubes			
															Side	Bow	Stn.			Total	Side		

DD

Treaty Tonnage - Destroyers (Continued)

Treaty tonnage - Destroyers (Continued)																												
YUNAGI	86	1925	Des	1270	34 G	350	30	1100	12	3500	148	1.3	0	4	4.7/45	15	4	1	1	30°	12 C (21")	6d	6d	40* 38 50	0			
ASANAGI	85	1924				a		e		e				2	0.750/63mh													
HAYATE	84	1925																										
OITE	83																											
HATAKAZE	82	1924																										
MATSUKAZE	81																											
ASAKAZE	80	1923			31 G		27	1350	12	3500																		
HARUKAZE	79																											
KAMIKAZE	78	1922																										
NAMIKAZE	77	1922	Des	1215	31 G	315	27	1308	12	3500	145	1.3	0	4	4.7/45	15	4	1	1	30°	12 C (21")	6d	6d	30 28 0	0			
NUMAKAZE	76					a		e		e				2	0.750/63mh													
DD																												
To be scrapped by 31 Dec. 1936 - Destroyers																												
NOKAZE	75	1922	Des	1215	31 G	315	27	1308	12	3500	145	1.3	0	4	4.7/45	15	4	1	1	30°	12 C (21")	6d	6d	30 28 0	0			
TACHIKAZE	74	1921				a		e		e				2	0.750/63mh													
HOKAZE	73																											
NADAKAZE	72																											
YUKAZE	71																											
SHIOKAZE	70																											
AKIKAZE	69																											
SHIMAKAZE	68	1920																										
HAKAZE	67																											
OKIKAZE	66																											
YAKAZE	65																											
MINEKAZE	64																											
SAWAKAZE	63																											
YUGAO	62	1924	Des	820	28.5G	275	24	1833	12	3500	110	1.1	0	3	4.7/45	15	3	1	1	30°	8 C (21")	4d	4d	30 28 0	0			
SANAE	61	1923						e		e				2	0.750/63mh													
KARUKAYA	60																											
ASAGAO	59																											
FUYO	58																											
KURETAKE	57	1922																										
WAKATAKE	56																											
YOMOGI	55	1922	Des	770	28.5G	275	24	1833	12	3500	110	1.1	0	3	4.7/45	15	3	1	1	30°	8 C (21")	4d	4d	30* 28 50	0			
HASU	54													2	0.750/63mh													
SUMIRE	53	1923																										
TADE	52	1922																										
HISHI	51																											
ASHI	50	1921																										
TSUTA	49																											
FUJI	48																											
SUSUKI	47																											
HAGI	46																											
AOI	45	1920																										
KIKU	44																											
KAKI	43																											
TSUGA	42																											
KURI	41																											
NIKE	40																											
KAYA	39																											
TAKE	38	1919																										
NASHI	37																											
YANAGI	35	1917			755																							
HINOKI	34																											
KASHI	33																											
MOMO	32	1916																										
URAKAZE	26	1915	Des	810	25 T	250	22	1719	12	3100	117	1.2	0	1	4.7/40	10	1	1	0	30°	8 C (21")	4d	4d	30 28 0	0			
															4	3"/40	5	3	0	1	a							
															2	0.750/63mh												
NOTES: DDs below and including No. 80 have had speed arbitrarily reduced by 3 kts. because of age, increased loading, or both. DDs 26,32-55 have no gun or torpedo director system.																												

NOTES: DDs below and including No. 80 have had speed arbitrarily reduced by 3 kts. because of age, increased loading, or both. DDs 26, 32-55 have no gun or torpedo director system.

*Assumed to carry either mines or depth charges, but not both.

To be scrapped by 31 Dec. 1936 - Destroyers

Note:- All DDs on this page, except DDs 199,187,206,207, 235-237 and 239-245 have no gun or torpedo director system.

NAME	NO.	DATE	SIZE	STAND. TON- NAGE	SPEED and DRIVE	FUEL Long Tons	SPEED RADIUS Sustained	SPEED RADIUS Economical	COMP. Ship Flag	LIFE	ARMOR Side Deck	GUNS							TORPEDOES				MINES Moored Drifting D.C.	AIR
												No.	Cal.	R A N G E	NUMBER			End Arc	No. Type	Tubes				
															Side	Bow	Stn.			Total	Side			

DD

To be scrapped by 31 Dec. 1936 - Destroyers (Cont.)

STANSBURY	180	1920	Des	1060	32 G	275	27	1100	12	2500	130	1.3	0	4	4"/50	13	3	2	2	25°	12 C	12d	6d	0	0
HOWARD	179													1	3"/23h	7								0	
HOGAN	178	1919												2	0"/50/63mh									0	
O'BANNON	177																							0	
RENSHAW	176																							0	
MacKENZIE	175																							0	
KALK	170	1919	Des	1060	32 G	275	27	1060	12	2500	130	1.3	0	4	4"/50	13	3	2	2	25°	12 C	12d	6d	0	0
FOOTE	169													1	3"/23h	7								0	
MADDOX	168													2	0"/50/63mh									0	
COWELL	167																							0	
BUSH	166																							0	
MEREDITH	165																							0	
CROSBY	164																							0	
WALKER	163																							0	
THATCHER	162																							0	
PALMER	161	1918																						0	
HERBERT	160	1919	Des	1090	32 G	280	27	1330	12	3900	130	1.3	0	4	4"/50	13	3	2	2	25°	12 C	12d	6d	0	0
SCHEMK	159													1	3"/23h	7								0	
LEARY	158													2	0"/50/63mh									0	
DICKERSON	157																							0	
J.F. TALBOTT	156	1919	Des	1090	32 G	280	27	1430	12	4300	130	1.3	0	4	4"/50	13	3	2	2	25°	12 C	12d	6d	0	0
COLE	155													1	3"/23h	7								0	
ELLIS	154													2	0"/50/63mh									0	
BERNADOU	153																							0	
DUPONT	152																							0	
BIDDLE	151																							0	
BLAKELY	150																							0	
BARNEY	149																							0	
BRECKINRIDGE	148																							0	
ROPER	147																							0	
ELLIOTT	146																							0	
GREER	145	1918																						0	
UPSHUR	144																							0	
YARNALL	143																							0	
TARBELL	142																							0	
HAMILTON	141	1919	Des	1090	32 G	280	27	1230	12	3480	130	1.3	0	4	4"/50	13	3	2	2	25°	12 C	12d	6d	0	0
CLAYTON	140													1	3"/23h	7								0	
														2	0"/50/63mh									0	
WARD	139	1918	Des	1060	32 G	275	27	1230	12	3480	130	1.3	0	4	4"/50	13	3	2	2	25°	12 C	12d	6d	0	0
KENNISON	138	1919												1	3"/23h	7								0	
														2	0"/50/63mh									0	
TILLMAN	136	1921	Des	1090	32 G	280	27	1520	12	3900	130	1.3	0	4	4"/50	13	3	2	2	25°	12 C	12d	6d	0	0
CROWNINSHIELD	134	1919												1	3"/23h	7								0	
HALE	133													2	0"/50/63mh									0	
AARON WARD	132																							0	
BUCHANAN	131																							0	
JACOB JONES	130	1919	Des	1090	32 G	280	27	1340	12	3900	130	1.3	0	4	4"/50	13	3	2	2	25°	12 C	12d	6d	0	0
BABBITT	128													1	3"/23h	7								0	
TWIGGS	127													2	0"/50/63mh									0	
BADGER	126																							0	
TATNALL	125																							0	

Note:- DDs 175-180, 161-170, 138, 139, have no gun or torpedo director system.

NAME	NO.	DATE	SIZE	STAND. TON- NAGE	SPEED and DRIVE	FUEL Long Tone	SPEED RADIUS Sustained	SPEED RADIUS Economical	COMP. <u>Ship</u> <u>Flag</u>	LIFE	ARMOR <u>Side</u> <u>Deck</u>	GUNS					TORPEDOES				MINES <u>Moored</u> <u>Drifting</u> D.C.	AIR
												No.	Cal.	R A N G E	NUMBER			End Arc	No. Type	Tubes		
															Side	Bow	Stn.			Total	Side	

DD

To be scrapped by 31 Dec. 1936 - Destroyers (Cont.)

LEA	118	1918	Des	1090	32 G	280	27	1440	12	4300	130	1.3	0	4	4"/50	13	3	2	2	25°	12 C	12d	6d	0	0
DORSEY	117													1	3"/23h	7								0	0
DENT	116													2	0"/50/63mh									24	0
WATERS	115																								
TALBOT	114																								
RATHBURN	113																								
CRANE	109	1919	Des	1060	31 G	275	27	810	12	2360	130	1.3	0	4	4"/50	13	3	2	2	25°	12 C	12d	6d	0	0
WILLIAMS	108													1	3"/23h	7								0	0
CHEN	106	1918												2	0"/50/63mh									24	0
NO	105	1918																							
CHAMPLIN	104																								
SCHLEY	103																								
BELL	95	1918	Des	1060	31 G	275	27	810	12	2750	130	1.3	0	4	4"/50	13	3	2	2	25°	12 C	12d	6d	0	0
														1	3"/23h	7								0	0
														2	0"/50/63mh									24	0
TAYLOR	94	1918	Des	1090	30 G	280	27	1220	12	3000	130	1.3	0	4	4"/50	13	3	2	2	25°	12 C	12d	6d	0	0
FAIRFAX	93													1	3"/23h	7								0	0
														2	0"/50/63mh									24	0
BD	92	1919	Des	1060	31 G	275	27	840	12	2500	130	1.3	0	4	4"/50	13	3	2	2	25°	12 C	12d	6d	0	0
HARDING	91													1	3"/23h	7								0	0
McKEAN	90													2	0"/50/63mh									24	0
RINGGOLD	89	1918																							
ROBINSON	88																								
McKEE	87																								
STEVENS	86	1918	Des	1060	31 G	275	27	860	12	2360	130	1.3	0	4	4"/50	13	3	2	2	25°	12 C	12d	6d	0	0
COLHOUN	85													1	3"/23h	7								0	0
DYER	84													2	0"/50/63mh									24	0
STRINGHAM	83																								
GREGORY	82																								
SIGOURNEY	81																								
KIMBERLY	80																								
LITTLE	79																								
EVANS	78	1918	Des	1090	32 G	280	27	1520	12	3900	130	1.3	0	4	4"/50	13	3	2	2	25°	12 C	12d	6d	0	0
PHILIP	76													1	3"/23h	7								0	0
WICKES	75													2	0"/50/63mh									24	0
MANLEY	74			1020																					
STOCKTON	73	1917	Des	1020	27 Tg	275	24	1730	12	3300	130	1.3	0	4	4"/50	13	3	2	2	25°	12 E	12d	6d	0	0
GONNER	72	1918												1	3"/23h	7								0	0
GWIN	71	1920												2	0"/50/63mh									24	0
GRAVEN	70	1918			30 G		27	1280	12	3300															
CALDWELL	69	1917			27 G		24	1730	12	3300															
ALLEN	66	1917	Des	920	26 Tg	310	23	1510	12	3380	104	1.2	0	4	4"/50	13	3	2	2	20°	12 C	12d	6d	0	0
ROWAN	64	1916												1	3"/23h	7								0	0
SAMPSON	63													2	0"/50/63mh									24	0
WADSWORTH	60	1915	Des	910	26 G	310	23	1510	12	3380	104	1.1	0	4	4"/50	13	3	2	2	20°	8 C	8d	4d	0	0
DD	57	1916			26 Tg									2	0"/50/63mh									24	0
CUSHING	55	1915		860																					
DD	53																								
NICHOLSON	52																								

Note:- All DDs on this page, except DDs 113-118, 93, 94, 74-76, 78, have no gun or torpedo director system.

NAME	NO.	DATE	SIZE	STAND. TON- NAGE	SPEED and DRIVE	FUEL Long Tons	SPEED RADIUS Sustained	SPEED RADIUS Economical	COMP. Ship Flag	LIFE	ARMOR Side Deck	GUNS					TORPEDOES				MINES Moored Drifting D.C.	AIR	
												No.	Cal.	R A N G E	NUMBER			End Arc	No. Type	Tubes			
															Side	Bow	Sta.			Total			Side

DM

To be scrapped by 31 Dec. 1936 - Light Minelayers

BRESE	18	1918	Des	1160	30 G	280	27	950	12	2400	130	1.3	0	4	4"/50	13	3	2	2	25°	0	0	0	80°	0
MONTGOMERY	17													1	3"/23h	7								80°	
RAMSEY	16	1919												2	0"/50/63mh									80°	
GAMBLE	15	1918																						80°	
SPROSTON	13	1919	Des	1160	31 G	275	27	810	12	2750	130	1.3	0	4	4"/50	13	3	2	2	25°	0	0	0	80°	0
ANTHONY	12													1	3"/23h	7								80°	
INGRAHAM	9													2	0"/50/63mh									80°	
LANSDALE	6	1918																						80°	
LUCE	4																							80°	
ISRAEL	3																							80°	
MURRAY	2																							80°	
STRIBLING	1																							80°	

*Either moored mine allowance only or drifting mine allowance only can be carried.

Page 16																							
NAME	NO.	DATE	SIZE	STAND. TON- NAGE	SPEED and DRIVE	FUEL Long Tons	SPEED RADIUS Sustained	SPEED RADIUS Economical	COMP. Ship Flag	LIFE	ARMOR Side Deck	GUNS					TORPEDOES				MINES		AIR
												No.	Cal.	R A N G E	NUMBER			End Arc	No. Type	Tubes		Moored Drifting D. C.	
															Side	Bow	Stn.			Total	Side		

DD

TORPEDO BOATS
(Unlimited class. Tonnage not counted).

DDs	13-20	Auth.	Assumed to be same as DDs 1-8.																						
Kiji	12																								
Kari	11																								
Sagi	10																								
Hato	9																								
Otori	8	1936	Des	527	26 G	157	22	2159	12	3500	100	0.9	0	3	5"1/50	18	3	1	1	30°	8 C	4d	2d	0	0
Hiyodori	7				a	a	a		a		a			1	0"50/63mh					(21")				0	
Hayabusa	6																			a				0	
Kasasagi	5																							12	
HATSUKARI	4	1935																							
TOMODZURU	3	1933																							
CHIDORI	2																								
MANADZURU	1																								

DM

LIGHT MINELAYERS

NASAMI	49	1935	Des	443	19	137	16	3131	10	3425	70	0.9	0	2	3"/40h	7	2	1	1	45°	0	0	0	50 47 0	0
NATSUSHIMA	48	1934				a	a	a	a	a	e			1	0"50/63mh										
ENTO	47																								
YAEYAMA	46	1931	Des	1135	17	300	15	1250	10	2500	100	1.3	0	2	4"7/45h	19	2	1	1	45°	0	0	0	150 143 0	0
						a	e	e	e	e	e			2	0"50/63mh										
ITSUKUSHIMA	45	1929	Des	1970	17	300	15	1250	10	2500	100	1.5	0	3	5"5/50	20	3	1	1	45°	0	0	0	300 286 60	0
						a	e	e	e	e	e			2	3"/40h	7									
														2	0"50/63mh										
														2	D.C. Throwers	1									
KATSURIKI	44	1917	Des	1540	13 R	100# a 200	12	2500	10	3000	100	1.5	0	3	3"/40	5	2	1	0	45°	0	0	0	150 143 0	0
											e			2	0"50/63mh										
SOKUTEN (12 in class)	43 to 32	1920 to 1915	Des	430	12 R	75 a	11	1200	10	1500	70	0.9	0	2	3"/40 a	5	2	1	0	45°	0	0	0	50 47 0	0
											e			2	0"50/63mh										
No. 1 class (8 ships)	31 to 24		Des	300	10 R	50 a	10	1200			50	0.8	0	1	3"/40 a	5	1	1	0	30°	0	0	0	25 23 0	0
						x					e			2	0"50/63mh										
No. 2 class (22 ships)	23 to 2		Sub	75	10 R	12 a	10	600			10	0.4	0	2	0"50/63mh									10 9 0	0
						x					e				a										
TOKIWA	1	1898	Int	9240	20 R	1400#	17	1698	10	2338	648	4.4	7" 2"	10 13 2	5"5/50 a 3"/40 0"50/63mh	18 5	6 7	3 3	3 3	30°	0	0	0	300 286 0	0

NOTE: DMs also fitted for minesweeping. Number 2 class available for coastal work only.

NAME	NO.	DATE	SIZE	STAND. TONNAGE	FUEL <u>Normal</u> Emerg.	SURFACE			SUBMERGED Speeds 1 hr.	COMP.	LIFE	GUNS			TORPEDOES			MINES <u>Moored</u> <u>Drifting</u> D.C.	AIR	
						Speeds		Radii				No.	Cal.	Range	No. Type	Tubes				
						Max.	Sustained									Total	Bow			Stern

SUBMARINE CLASS
Treaty Tonnage - Submarines

SS

Sturgeon	187	1938	Sub	1450	<u>100</u> 280	19.5CE	14	10200	8	15800	8.75	50	0.8	1 3"/50h 2 0°50/63mh	10	24 H	8	4	4	0	0
Stingray	186																				
Snapper	185																				
Skipjack	184																				
Seal	183																				
Salmon	182																				
Pompano	181	1937	Sub	1300	<u>100</u> 280	19.5CE	14	10200	8	15800	8.25	50	0.8	1 3"/50h 2 0°50/63mh	10	16 H	6	4	2	0	0
Pollack	180																				
Plunger	179																				
Permit	178																				
Pickerel	177																				
Perch	176	1936																			
TARPON	175	1935																			
SHARK	174																				
Pike	173	1936	Sub	1300	<u>87</u> 300	19 CE	14	10400	8	17200	8	50	0.8	1 3"/50h 2 0°50/63mh	10	16 H	6	4	2	0	0
Porpoise	172																				
CUTTLEFISH	171	1934	Sub	1120	<u>80</u> 268	17 C	14	12000	8	26300	8	44	0.7	1 3"/50h 2 0°50/63mh	10	16 H	6	4	2	0	0
CACHALOT	170			1110																	
DOLPHIN	169	1932	Sub	1540	<u>140</u> 260	17 CE	14	7970	8	17200	8	60	0.8	1 4"/50 2 0°50/63mh	13	21 G	6	4	2	0	0
NAUTILUS	168	1930	Sub	2730	<u>165</u> 589	17 CE	14	9760	8	30200	8.5	87	1.0	2 6"/53 2 0°50/63mh	22	36 G	6	4	2	0	0
NARWHAL	167																				
BONITA	165	1926	Sub	2000	<u>159</u> 271	19 CE	15	3900	9	8000	8	87	0.9	1* 5"/51 1 3"/50h 2 0°50/63mh	17 10	12 G	6	4	2	0	0
BASS	164	1925				14 CE	11	6500													
BARRACUDA	163	1924				18 CE	15	3900													
S-48	159	1922	Sub	1000	<u>75</u> 138	14 C	11	7260	8	8620	9	44	0.7	1 4"/50	13	14 F (21")	5	4	1	0	0
S-47	158	1925	Sub	850	<u>57</u> 139	13 C	11	6000	8	9000	10.4	44	0.7	1 4"/50	13	12 F (21")	4	4	0	0	0
S-46	157																				
S-45	156																				
S-44	155																				
S-43	154																				
S-42	153																				
S-41	146	1924	Sub	800	<u>35</u> 132	13 C	10	6400	8	7700	10.3	44	0.7	1 4"/50	13	12 F (21")	4	4	0	0	0
S-40	145	1923																			
S-39	144																				
S-38	143																				
S-37	142																				
S-36	141																				
S-35	140																				
S-34	139																				
S-33	138	1922																			
To be scrapped by 31 Dec. 1936 - Submarines																					
S-32	137	1923	Sub	800	<u>35</u> 132	13 C	10	6400	8	7700	10.3	44	0.7	1 4"/50	13	12 F (21")	4	4	0	0	0
S-31	136																				
S-30	135	1920																			
S-29	134	1924																			
S-28	133	1923																			
S-27	132	1924																			
S-26	131	1923																			
S-25	130																				
S-24	129																				
S-23	128																				

NOTE: All radii given are based upon emergency fuel capacities, allowing for normal amount of submerged operations.

NOTE: All radii given are based upon emergency fuel capacities, allowing for normal amount of submerged operations.

SS, SM

SS

SUBMARINE CLASS
Treaty Tonnage - Submarines

I-75	78	Bldg.	Sub	1600	<u>100</u>	19	16	3200	8	10000	9	60	0.8	1	4:7/40	10	20 H	8	6	2	0	0
I-74	77			e	200							e		2	0:50/63mh		a					
I-73	76	1935		1400	a																	
I-72	75	Bldg.																				
I-71	74	1935																				
I-70	73	1935																				
I-69	72																					
I-68	71	1934																				
I-67	70	1932	Sub	1638	<u>100</u>	19	16	3200	8	10000	9	60	0.8	1	4:7/40	10	15 G	6	4	2	0	1 VO
I-66	69				200							e		2	0:50/63mh		a				a	
I-65	68				a																	
I-64	67	1930		1635																		
I-62	66																					
I-61	65	1929																				
I-63	64	1928	Sub	1635	<u>75</u>	19	16	2880	8	10000	9	57	0.8	1	4:7/40	10	20 G	8	6	2	0	1 VO
I-60	63	1929			180							a		1	3"/25h	6	a				a	
I-59	62	1930			a									2	0:50/63mh							
I-58	61	1920																				
I-57	60	1929																				
I-56	59	1928																				
I-54	58	1927																				
I-53	57																					
I-8	56	Bldg.	Sub	1950	<u>180</u>	17	14	5400	8	10000	9	57	0.9	2	5:5/50	18	20 G	6	4	2	0	1 VO
I-7	55				270							a		2	0:50/63mh		a				a	
I-6	54	1935		1900	a																	
I-5	53	1932		1955																		
I-4	52	1929																				
I-3	51	1926																				
<u>SS</u> To be scrapped by 31 Dec. 1936 - Submarines																						
I-2	50	1926	Sub	1955	<u>180</u>	17	14	5400	8	10000	9	57	0.9	2	5:5/50	18	10 G	6	4	2	0	0
I-1	49				270							a		2	0:50/63mh		a					
					a																	
I-55	48	1926	Sub	1635	<u>75</u>	19	16	2880	8	10000	9	57	0.8	1	4:7/40	10	10 G	8	6	2	0	0
					180							a		1	3"/25h	6	a					
					a									2	0:50/63mh							
I-52	47	1925	Sub	1390	<u>75</u>	17	14	4200	8	10000	9	57	0.8	1	4:7/40	10	10 G	8	6	2	0	0
I-51	46	1924			180							a		2	0:50/63mh		a					
					a																	
RO-68	45	1925	Sub	988	<u>75</u>	16	13	4670	7	10000	9	48	0.7	1	3"/40h	7	10 F	6	4	2	0	0
RO-67	44	1926			140									1	0:50/63mh		(21")					
RO-66	43	1927																				
RO-65	42	1926																				
RO-64	41	1925																				
RO-63	40	1924																				
RO-62	39																					
RO-61	38																					
RO-60	37	1923																				
RO-59	36	1923	Sub	889	<u>65</u>	17	14	4000	8	8000	10	48	0.7	1	3"/25h	6	8 F	4	4	0	0	0
RO-58	35	1922			120									1	0:50/63mh		(21")					
RO-57	34																					

To be scrapped by 31 Dec. 1936 - Submarines (Continued)

[illegible]

(1) Experimental seaplane.

Treaty Tonnage - Minelaying Submarines

NOTE :- All radii given are based upon emergency fuel capacities, allowing for normal amount of submerged operations.

To be scrapped by 31 Dec. 1936 - Submarines (Continued)

Note: • SM-6 Only.

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NAME	NO.	DATE	SIZE	STAND. TON- NAGE	SPEED and DRIVE	FUEL Long Tons	SPEED RADIUS Sustained		SPEED RADIUS Economical		COMP. Ship Flag	LIFE	ARMOR Side Deck	GUNS					TORPEDOES				MINES Moored Drifting D.C.	AIR		
														No.	Cal.	R A N G E	NUMBER			End Arc	No. Type	Tubes				
																	Side	Bow	Stn.			Total	Side			
CM MINELAYERS																										
OGLALA AROOSTOOK	4 3	1907	S	4200	16 R	563	14	3600	10	4800	333	2.1	0	1 2 4	5"/51 3"/50h 0°50/63mh	17 10	1	1	0	30°	0	0	0	0	330 330 0	0
YOSEMITE	2	1889	S	3700	19 R	660#	16	2400	10	5500	347	1.9	0	3 2 4	5"/51 3"/50h 0°50/63mh	17 10	2	2	1	30°	0	0	0	0	180 180 0	0
BALTIMORE	1	1888	S	3950	20 R	1090#	17	2500	10	6000	347	2.0	0	4 2 4	5"/51 3"/50h 0°50/63mh	17 10	2	2	2	30°	0	0	0	0	180 180 0	0
PG GUNBOATS																										
CHARLESTON ERIE	51 50	1936	Des	2000	20 T	502	17	2900	12	8000	248	1.6	3°50 1°25	4 16	6"/47 1°1 h	19	4	2	2	30°	0	0	0	0	0	2 VS (With wings folded.)
TULSA ASHEVILLE	22 21	1923 1920	Des	1270	12 G	450	11	6500	7	10900	194	1.2	0	3	4"/50	13	3	1	1	45°	0	0	0	0	0	0
SACRAMENTO	19	1914	Des	1140	12 R	428#	11	4700	7	6100	153	1.2	0	3	4"/50	13	3	1	1	45°	0	0	0	0	0	0
Note:- (1) None; but deck lugs to be provided for installation of mine tracks and depth charge racks if desired to accommodate 88 mines and 20 depth charges.																										
PR RIVER GUNBOATS																										
MINDANAO LUZON OAHU PANAY TUTUILA GUAM	8 7 6 5 4 3	1928	Des	560	16 R	78	14	1200	8	2500	53	0.9	0	2	3"/50h	10	1	1	0	45°	0	0	0	0	0	0
				450	16 R	103	14	1660	8	3300		0.8														
					e	e	e	e	e	e				2	3"/23h	7	1	1	0	45°						
				370	15 R	75	14	1100	12	1200																
MONOCACY PALOS	2 1	1914	Sub	180	13 R	32#	11	250	6	400	51	0.5	0	2	3"/23h	7	2	1	1	45°	0	0	0	0	0	0
PE EAGLES																										
EAGLES	60-55 52-51 48-46 44 39-38 36-35 32 27-26 22 19 15 12-10	1919	Des	430	17 G	152	16	1900	10	3400	84	0.8	0	2 1	4"/50 3"/50h	13 10	2	1	1	30°	0	0	0	0	0 0 20	0

5543/1318																								
NAME	NO.	DATE	SIZE	STAND. TON- NAGE	SPEED and DRIVE	FUEL Long Tons	SPEED RADIUS Sustained	SPEED RADIUS Economical	COMP Ship Flag	LIFE	ARMOR Side Deck	GUNS				TORPEDOES				MINES Moored Drifting D.C.	AIR			
												No.	Cal.	R A N G E	NUMBER			End Arc	No. Type			Tubes		
															Side	Bow	Stn.					Total	Side	
PS																								
SLOOPS																								
PS*	30 29 28 27 26 25 24 23		Des	2000	20 G (a)	480 e	20 2220 e	10 12000 e	220 e	1.6	0	4 8	5"/38h 0"/50/63mh	17	4	2	2	25°	0	0	0	0 0 75 a	1 VS a	
FY																								
CONVERTED YACHTS																								
ISABEL	10	1917	Des	710	24 T	216	22 1100	12 2300	84	1.0	0	2 2	3"/50 3"/23h	8 7	2 2	1 1	1 1	45°	0	0	0	0	0	
NOKOMIS	6	1917	Des	910	13 R	303#	11 5000	7 4300	100	1.0	0	2	3"/50	8	2	1	1	45°	0	0	0	0	0	
PC																								
SUBCHASERS 110 foot																								
Total	26	1921	Sub	75	14 C	2400 gals. g.	14 420	9 960	12	0.3	0	1	3"/23h	7	1	1	0	45°	0	0	0	0 0 10	0	
Note:- *New construction permitted by London Treaty. Number unlimited.																								

NAME	NO.	SIZE	GROSS TON- NAGE	LIFE	Bunker FUEL Tons	SPEED and DRIVE	RADIUS 10 kts.	GUNS			COMP.	Capacity in excess of own requirements.									
								No.	Cal.	Side											
AC																					
COLLIERS (Also available for general cargo)																					
NOJIMA MUROTO	2 1	Int	5000 e	2.3	877#	12 R	5500	2 2	4"7/40 3"/40h	2	100 a	Coal 4000 tons.									
AD																					
DESTROYER TENDERS																					
KOMAHASHI	2	Des	1000 e	1.2	233	14 R	2600	2 1 2	3"/40 3"/40h 0"50/63mh	2	135 a	Ammunition - 100 rounds, Torpedoes 20, rations for one (1) division DD for 30 days.									
KARASAKI	1	S	3500 e	1.9	800	13 R	2600	1 1 2	3"/40 3"/40h 0"50/63mh	1	250	Diesel oil - 400 tons, ammunition 200 rounds. Torpedoes 100; rations for 3 divisions DD for 30 days.									
AF																					
STORE SHIPS																					
SEITO	2	S	3844	2.0	500#	9 R	4000	2	3"/40	2	85	Available for any general cargo.									
MAMIYI	1	Int	9000 e	3.3	1600#	14 R	6000	2 2	4"7/40 3"/40h	2	195										
AO																					
OILERS																					
NARUTO HAYATOMO ONDO IRO SHIRIYA TSURUMI SATA ERIMO SHIRETOKO	13 12 11 10 9 8 7 6 5	S	8000	3.1	1000	12 R	6700	2 2 2	5"5/50 3"/40h 0"50/63mh	2	157	8000 oil.									
SUNOSAKI	3	S	5500 e	2.4	450	14 R	3460	2 2	4"7/40 3"/40h	2	135	5000 oil.									
TSURUGISAKI TAKASAKI	2 1	Des	1200 e	1.3	100	9 R	1250	2	3"/40	2	75	1100 oil.									
AS																					
SUBMARINE TENDERS																					
TAIGEI	5	S	6000 e	2.6	1000 a	20 R	8300 a	4 2	5"1/50h 0"50/63mh	4	320	Diesel oil - 475 tons, ammunition, 300 rounds 4"7 or 5"5; torpedoes, 100. Lubricating oil, 80 tons. Rations for 9 SS (3 Divs) for 30 days. Carries 3 VS.									
CHOGEI JINGEI	4 3	S	5000 e	2.3	1000 a	16 T	8300 a	4 2	5"5/50 0"50/63mh	4	320	Diesel oil - 475 tons; ammunition, 300 rounds 4"7 or 5"5; torpedoes, 100. Lubricating oil, 80 tons. Rations for 9 SS (3 Divs) for 30 days. Carries 1 VS.									

NAME	NO.	SIZE	GROSS TON- NAGE	LIFE	NET TON- NAGE	Bunker FUEL Tons	SPEED and DRIVE	RADIUS 10 kts.	GUNS No. Cal.	COMP.	Maximum capacity in excess of own requirement
AC											
COLLIERS											
NEREUS PROTEUS	10 9	Int	9681	3.4	5722	2000#	14 R	6660	4 4"/50 2 0:50/63mh	181	Coal - 11800 tons. Fuel oil - 1125 tons.
NEPTUNE	8	Int	9899	3.5	5876	2000#	13 G	7690	4 4"/50 2 0:50/63mh	181	Coal - 11700 tons. Fuel oil - 1250 tons.
AD											
DESTROYER TENDERS											
RIGEL DENEbola ALTAIR	13 12 11	S	7000	2.8	4556	1344	10 G	7050	4 5"/51 4 3"/50h 2 0:50/63mh	452	For 13 DD - rations for 45 days. Dry provisions for 6 months. Six DD propellers. Torpedoes: RIGEL, 125; DENEbola, 6; ALTAIR, 12 (DENEbola and ALTAIR to be increased to 126). General stores - six months.
BRIDGEPORT	10	S	8005	3.1	3710	2055#	12 R	8200	8 5"/51 4 3"/50h 2 0:50/63mh	450	For 13 DD - same as for RIGEL class, except torpedoes 14 (to be increased to 100).
BLACKHAWK	9	S	6381	2.7	3857	1554	13 R	10350	4 5"/51 2 0:50/63mh	473	For 13 DD - rations for 45 days, dry provisions for 3 months. Six propellers. 12 torpedoes. General stores - 9 months.
WHITNEY DOBBIN	4 3	S	8154	3.1	5294	961	16 G	6850	8 5"/51 4 3"/50h 2 0:50/63mh	469	For 13 DD - rations for 90 days. General stores 9 months. Six DD propellers. 216 torpedoes. Cargo fuel oil 1532 tons.
MELVILLE	2	S	5522	2.5	3126	930	15 G	5800	8 5"/51 1 3"/50h 2 0:50/63mh	465	For 13 DD - rations for 60 days. General stores - six months. Six propellers. 66 torpedoes.
AE											
AMMUNITION SHIPS											
NITRO PYRO	2 1	S	7440	2.9	4405	1493	16 G	10650	4 5"/51 2 3"/50h 2 0:50/63mh	177	Cargo - Ammunition 2438 tons - frozen meats 200 tons. Chilled storage space for powder 93,450 cu. ft. Total space 176,440 cu. ft.
AF											
PROVISION STORE SHIPS											
YUKON BOREAS ARCTIC	9 8 7	S	5975	2.6	3913	1616	11 G 11 T 11 G	9500	2 5"/51 4 3"/50h 2 0:50/63mh	211	Self-sustaining 30 days. Cargo - Refrigerated meats 845 tons, fresh vegetables 1300 tons. Dry provisions 1875 tons.
RAPPAHANOCK	6	Int	8680	3.2	4688	2824#	11.5R	13400	4 5"/51 4 3"/50h 2 0:50/63mh	291	Self-sustaining 30 days. Cargo - Refrigerated meats 1000 tons, fresh vegetables 1500 tons. Dry provisions 2500 tons.
BRIDGE	1	S	6357	2.7	3394	946	14 R	7850	4 5"/51 1 3"/50h 2 0:50/63mh	212	Self-sustaining 30 days. Cargo - Refrigerated meats 800 tons, fresh vegetables 1250 tons. Dry provisions 1600 tons. Has towing engine.
AH											
HOSPITAL SHIPS											
MERCY	4	S	6644		2463	1757#	18 R	7600	None	377	Patients, 312.
RELIEF	1	S	8288		4037	1951	16 G	10800	None	417	Patients, 500.

NAME	NO.	SIZE	GROSS TON- NAGE	LIFE	Bunker FUEL Tons	SPEED and DRIVE	RADIUS 10 kts.	GUNS			COMP.	
								No.	Cal.	Side		
												Capacity in excess of own requirements.

AV

PLANE TENDERS

[illegible]

AG

ANTI-SUBMARINE NET LAYERS

SHIRATAKA	3	Des	1345*	1.3	233 a	16 R	2600	3 1	477/45h 0750/63mh	3	135 a	Assumed to carry materials sufficient to construct anti-submarine net 2,000 yards long and 30 feet in depth.
KAMOME TSUBAME	2 1	Des	450*	0.9	50# (150 a	19 T	3000	1	3"/25h	1	75 a	Same as above, except for length of 600 yards.
*Standard Tonnage.												

NAME	NO.	SIZE	GROSS TON- NAGE	LIFE	NET TON- NAGE	Bunker FUEL Tons	SPEED and DRIVE	RADIUS 10 kts.	GUNS No. Cal.	COMP.	Maximum capacity in excess of own requirement
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AK

CARGO SHIPS

VEGA	17	S	5562	2.5	3434	1051	11.5 G	9500	2 5"/51	113	General cargo space - 288,000 cu. ft. GOLDSTAR has 223,000 cu. ft. for general cargo, plus refrigerator space of 11,500 cu. ft. (130 tons) 5 holds - hatches 22' x 32' - Booms 1-30 tons, 1-10 tons, 8-5 tons. Self-sustaining 30 days.
SPICA	16								4 3"/50h		
SIRIUS	15								2 0"50/63mh		
CAPELLA	14										
REGULUS	13		4980	2.3	3087						
GOLDSTAR*	12										
KITTERY	2	Des	1839	1.4	841	351#	14 R	2900	4 3"/50	115	3 Hatches - No. 1-16' x 12', No. 2-23' x 14', No. 3-18' x 13'. Booms 6-5 ton.
									2 0"50/63mh		

*Officially listed as AG-12.

AM

MINESWEEPERS (Bird Class)

AMs 1-5,7,9,10, 13-21,23-27, 30,31,33-37, 40, 41, 43, 51-52	Des	840	1.0	-	275		14 R	6900	2 3"/50h	59	Can also carry 80 drifting or moored mines.
									2 0"50/63mh		

**Standard Tonnage.

AO

OILERS

TIPPECANOE	21	S	8246	3.1	6258	1109	10.5 T	9200	2 5"/51	107	Fuel oil 11,116 tons.
SEPULGA	20						10.5 R		2 3"/50h		
SALINAS	19								2 0"50/63mh		
RAPIDAN	18										
MATTOLE	17	S	7253	2.9	5393	1288	11 R	12880	2 5"/51	107	Fuel oil 8532 tons.
LARAMIE	16								2 3"/50h		
KAWEAH	15								2 0"50/63mh		
TRINITY	13	S	8266	3.1	6258	1109	11.5 T	9200	2 5"/51	107	Fuel oil 11,116 tons.
RAMAPO	12						11.5 R		2 0"50/63mh		
SAPELO	11										
PATOKA (1)	9	S	8266	3.1	6258	1478	11.5 R	12300	2 5"/51	105	Fuel oil 7843 tons. Aviation gas 431 tons. Helium 200,000 cu. ft.
									2 0"50/63mh		
PECOS	6	S	7449	2.9	5000	824	14 R	5800	4 5"/51	136	Fuel oil 7854 tons. Gasoline: AO-5 - 431 tons; AO-4 - 528 tons.
NECHES	5								2 3"/50h		
BRAZOS	4								2 0"50/63mh		
CUYAMA	3	S	7449	2.9	5000	824	14 R	5800	4 5"/51	136	Fuel oil 7854 tons. Gasoline 237 tons. Has towing engine.
									2 0"50/63mh		
MAUMEE	2	S	7449	2.9	5000	824	14 C	5800	4 4"/50	136	Fuel oil 7854 tons. Gasoline 617 tons. Has towing engine.
KANAWHA	1						14 R		2 0"50/63mh		

Note:- (1) Fitted with Mooring Mast.

AP

TRANSPORTS

CHAUMONT	5	S	7555	3.0	3908	1473	15 G	8600	2 0"50/63mh	287	Passengers - 117 1st Class, 1200 Troops, Cargo 1430 tons.
HEYWOOD	2	S	7493	Projected.	No funds	for constructions.					
HENDERSON	1	S	7493	3.0	3992	1400	16 T	9300	8 5"/51	378	Passengers - 80 1st Class, 1200-2000 Troops. Cargo 1450 tons.
									2 3"/50h		
									2 0"50/63mh		

3523/1318

NAME	NO.	SIZE	GROSS TON- NAGE	LIFE	NET TON- NAGE	Bunker FUEL Tons	SPEED and DRIVE	RADIUS 10 kts.	GUNS No. Cal.	COMP.	Maximum capacity in excess of own requirement
AR			REPAIR SHIPS								
VESTAL	4	S	6690	2.8	3713	928	16 R	4800	4* 5"/51	465	Facilities for repairs not requiring docking to any type ship. Stores consist of materials for use in repair work. Self-sustaining for six months, including stores.
PROMETHEUS	3					872		4500	1 3"/50h		
									2 0*50/63mh		
MEDUSA	1	Int	10715	3.6	6741	1834	16 G	13100	4 5"/51	465	Same. Also carries two VO and facilities for tending one Squadron (18 VO or VF) at base.
									2 3"/50h		
									2 0*50/63mh		
			*AR-3 has 4-5"/50 guns.								
AS			SUBMARINE TENDERS								
ARGONNE	10	S	7555	3.0	3908	1263	14 R	7000	4 5"/51	339	Rations for 1 Division SS for 90 days. 60 torpedoes. General stores, 5 months. Diesel oil - 225 tons. Lubricating oil 70 tons.
									4 3"/50h		
									2 0*50/63mh		
CANOPUS	9	S	5506	2.5	2900	776	13.5 R	5900	1 5"/51	367	Rations for 1 Division SS for 90 days. 100 torpedoes. General stores 6 months. Diesel oil - 450 tons. Lubricating oil 45 tons.
									4 3"/50h		
									2 0*50/63mh		
AS-8	8	S	5755	2.5	2614	1203#	10.5 R	6600	4 4"/50	340	Rations for 1 Division SS for 60 days. 96 torpedoes. Stores for 6 months.
									4 3"/50h		
									2 0*50/63mh		
CAMDEN	6	S	4752	2.3	2360	1030#	12 R	6800	4 4"/50	358	Rations for 1 Division SS for 90 days. 46 torpedoes. Stores for 6 months. Diesel oil 720 tons. Lubricating oil 140 tons.
									2 0*50/63mh		
BEAVER	5	S	4461	2.2	2425	530	16.5 R	4000	4 5"/51	360	Rations for 1 Division SS for 90 days. 93 torpedoes. Stores for 4 months. Diesel oil 460 tons. Lubricating oil 80 tons.
									2 0*50/63mh		
HOLLAND	3	S	8008	3.1	5097	1221	16 G	8700	8 5"/51	435	Rations for 2 Division SS for 120 days. 72 torpedoes. General stores 6 months. Diesel oil 1144 tons. Lubricating oil 430 tons.
									4 3"/50h		
									2 0*50/63mh		
BUSHNELL	2	Des	2869	1.7	1496	688	14 G	7600	4 5"/51	221	Rations for 1 Division SS for 60 days. 28 torpedoes. General stores 4 months. Diesel oil 250 tons.
									2 0*50/63mh		
AV			AIRCRAFT TENDERS								
JASON	2	Int	10939	3.7	6257	2300#	14 R	7900	4 4"/50	230	Supports 2 squadrons (18 VP). Rations 60 days. Stores and spares for 3 months. Aviation Gasoline 216 tons. Aviation oils 40 tons. (e)
									2 0*50/63mh		
WRIGHT	1	Int	9193	3.3	3943	1629	16 G	10100	2 5"/51	338	Supports 2 squadrons (18 VP). Rations 60 days. Stores and spares for 3 months. Aviation Gasoline 216 tons. Aviation oils 40 tons.
									2 3"/50h		
									2 0*50/63mh		

3343/1318

NAME	NO.	SIZE	GROSS TON- NAGE	LIFE	NET TON- NAGE	Bunker FUEL Tons	SPEED and DRIVE	RADIUS 10 kts.	GUNS No.	Cal.	COMP.	Maximum capacity in excess of own requirement
AG, AT, ASR												
MISCELLANEOUS and TUGS												
LAMBERTON RADFORD (Ex-DDs 120,119)	22 21	Des	*1090 *1060	1.3	---	275	31 Tg	3400	4 1	4"/50 3"/23h	130	Mobile Targets.
BOGGS KILTY (Ex-DDs 136,137)	20 19	Des	*1060	1.3	---	275	32 G	3200	4 1	4"/50 3"/23h	130	Mobile Targets.
WYOMING UTAH	17 16	L	*26000 *22000	14.9 13.7	---	5160 4780	21 T	13700 14400	6 16 8	12"/50 5"/51 3"/50h	540 300	Used for training purposes. Mobile Target.
STODDERT SLOAT MARCUS (Ex-DDs 302, 316, 321)	18 15 14	Des	*1190	1.3	---	375	31 G	5750	4 1	4"/50 3"/23h	130	Mobile Targets.
EMPIRE STATE (Ex-Procyon) ANTARES	11 10	Int	5501	2.5	2809	1051	11.5 G	9500	2 4**	5"/51 3"/50h	280	Fitted as Base Force and Train Squadron Flagships.
ATs 10 to 60 less 11,15,35, 40-51,53,54,57		Des	*850 e	1.1	---	200# a	13.15 a	3500 a	Miscellaneous		35	Miscellaneous service. Ocean going. Can be used as AMs.
ASRs 1 to 6 less No. 3.		Des	*950 e	1.2	---	275	14 R	6900	2 2	3"/50h 0.50/63mh	59	Submarine Rescue Vessels.
Notes:- *Standard Tonnage. **AG-10 only. Ex-DDs have had speed arbitrarily reduced by three (3) knots because of age, increased loading, or both.												

BLUE and ORANGE FLEETS

June, 1936

Part II

Fuel Expenditure Tables

BB

BATTLESHIPS (Data taken from F.T.P. 136)

BB

BATTLESHIPS (Data taken from 1911-1922)

VESSELS	FUEL Long Tons	Port Use Day	Long Tons per hr. at speeds shown 1 Ton = 292 gals.											
			10	11	12	13	14	15	16	17	18	19	20	21
45, 46, 48	4680	11.5	2.23	2.56	3.04	3.56	4.22	4.98	6.08	7.16	8.44	9.96	11.8	14.5
43, 44	4750	11.2	2.33	2.71	3.25	3.83	4.60	5.34	6.35	7.68	8.75	9.83	12.0	14.2
40, 41, 42	5409	12.0	2.64	2.96	3.33	3.82	4.45	5.32	6.48	7.67	9.05	10.6	12.6	15.2
38, 39	5568	12.5	2.79	3.12	3.41	3.69	4.09	4.76	5.62	6.99	8.18	8.96	11.5	15.8
37	4876	9.7	2.91	3.42	4.10	4.72	5.49	6.78	8.25	9.50	11.5	13.6	15.8	18.1
36	4705	9.04	2.34	2.79	3.27	3.72	4.23	4.79	6.26	7.91	9.42	11.2	13.0	15.0
35	5194	9.04	2.92	3.40	3.98	4.66	5.41	6.66	8.04	11.1	13.1	14.0	15.4	16.9
34	5194	8.4	2.55	3.01	3.41	4.27	5.13	6.16	7.75	9.35	11.1	13.0	14.9	16.8
33	5160	14.3	3.66	4.11	4.64	5.43	6.37	7.99	9.03	10.9	13.3	16.0	19.5	23.0

CV

AIRCRAFT CARRIERS

			10	12	14	15	18	22	26	28	30	31	32	33
1	1920	12.4	2.09	3.12	4.22									
2, 3	6830	36.6	6.47	7.44	8.82	9.86	13.3	29.9	44.2	52.5	63.7	70.9	79.5	90.1
4 (e)	3630	9.5	1.98	3.15	4.98	5.55	8.55	14.3	21.9	26.0	28.8			
5, 6 (e)	5247	11.5	3.8	4.5	--	7.5	11.8	20.5	33.5	41.0	51.7	57.5	63.5	77.5

CA-CL

CRUISERS

			12	16	20	22	24	26	28	30	31	32.5	
CA 24-31 33,35	2825	11.0	2.10	3.60	6.40	8.00	9.70	12.4	15.8	21.8	28.0	37.3	
CA 32,34 36-39 44,45	2210												
CL 40-43 46-50 (e)	2246	10.0	1.90	3.50	6.00	7.80	10.2	13.3	17.6	26.0	32.4	41.7	
CL 9-13	1890	6.08	1.93	3.56	7.12	8.97	11.4	14.5	18.5	25.1	29.5	36.0	43.1
7, 8	1890	10.7	3.00	4.93	8.49	11.1	14.4	17.8	22.4	30.1	34.4	38.6	42.9
4-6	1880	8.88	2.67	4.55	7.40	9.50	11.9	15.1	19.3	24.4	28.0	32.0	36.6

CM

MINELAYERS

			10	11	12	13	14	15	16	17	18	19	20
CM-4, 3	563	6.66	1.17	1.32	1.56	1.84	2.16	2.67	3.29				
2	660#	8	1.2	1.4	1.7	2.2	2.7	3.5	4.3	5.3	6.4	7.5	
1	1090#	9	1.8	2.2	2.6	3.1	3.9	4.8	5.8	7.3	9.0	11.4	14.0

DL

DESTROYER LEADERS

VESSELS	FUEL Tons	Port Use Day	Long Tons per hour at speeds shown											
			12	16	20	24	26	28	30	31	32	33	34	36.5
356-363, 381, 383 394-396 (e)	646	3.5	.99	1.50	2.35	3.90	5.20	7.05	9.50	10.9	12.5	14.3	16.4	23.2

DD

DESTROYERS

			12	16	20	24	26	28	30	31	32	33	34	36.5
364-380, 382, e 384-393 397-408	550	3.0	.90	1.40	2.15	3.60	4.80	6.47	8.80	10.2	11.6	13.3	15.2	21.2
348-355e	600	3.0	.94	1.43	2.20	3.70	4.90	6.60	9.00	10.3	11.8	13.4	15.4	21.5
345-347	375	3.3	.93	1.70	3.08	5.17	6.67	8.63	11.4	13.6	16.4			
342-344		2.9	.86	1.53	2.81	4.77	5.96	7.57	9.96	11.8				
336-341		2.8	.86	1.48	2.60	4.52	5.88	7.46	9.96	11.8	14.3			
263-274		3.2	1.1	2.1	3.6	5.8	7.3	9.0	11.3	12.7				
251-260		3.2	1.15	1.65	2.67	5.01	6.50	8.15	10.2	11.3				
231-250		3.3	.86	1.48	2.74	5.09	6.76	8.72	11.6	13.5				
206-230		2.8	.74	1.26	2.40	4.27	5.61	7.19	9.45	10.8	12.6			
186-199		3.9	1.15	1.64	2.67	4.77	6.50	8.72	11.6	13.5				
181-185	275	3.2	1.1	2.0	3.3	5.3	6.8	8.2	9.8					
175-180		3.2	1.3	2.1	3.0	4.3	5.7	7.8	9.6	10.5	11.6			
161-170		3.2	1.3	2.3	3.2	4.5	6.0	7.9	10.0	11.0	12.2			
157-160	280	4.8	.86	1.32	2.19	3.70	4.90	6.33	8.22	9.02	10.3			
142-156		4.6	.78	1.21	1.92	3.29	4.54	5.94	7.70	8.70	9.64			
138-141		4.0	.99	1.48	2.33	3.95	5.34	6.90	8.63	9.66	10.6			
131-135		3.7	.86	1.21	1.85	3.21	4.27	5.65	7.19	7.96	8.76			
125-130		4.85	.86	1.32	2.19	3.70	4.90	6.33	8.22	9.02	10.3			
113-118		4.6	.78	1.21	1.92	3.29	4.54	5.94	7.75	8.70	9.64			
103-109	275	3.2	1.4	2.1	3.2	5.5	7.8	10.5	12.3	13.6				
95		3.2	1.2	2.0	3.2	5.5	7.8	10.5	12.5	13.7				
93-94	280	6.2	1.11	1.70	2.74	4.36	5.52	6.81	8.43					
87-92	275	3.2	1.3	2.1	3.2	5.4	7.6	10.0	11.5	12.3				
79-86		3.2	1.4	2.2	3.2	5.3	7.5	9.6	10.2	11.6				
74-78	280	3.7	.86	1.21	1.85	3.21	4.27	5.65	7.19	7.96	8.76			
60-73	275	3.5	1.0	1.6	2.4	3.8	5.2	6.3	7.5					
52-66	310	3.3	1.1	2.2	3.5	5.1	7.0							

BB

BATTLESHIPS

VESSELS	FUEL Tons	Port Use Day	Tons per hour at speeds shown											
			10	12	14	15	16	17	18	19	20	21	22	23
BB 9,10	5000	25	4.8	6.6	9.1	10.5	12.2	14.1	16.4	18.6	21.4	24.8	29.0	33.6
7, 8	3900	25	3.8	4.8	6.0	7.1	8.0	9.2	10.6	12.5	14.2	16.2	18.7	21.6
5, 6	3900	25	3.3	4.1	5.2	5.7	6.6	7.7	8.8	10.3	12.2	14.7	17.6	19.4*
*Full speed 22.5 knots.														
			10	14	16	18	20	22	23	24	25	26		
BB 1,3,4	4500	25	3.6	6.0	8.2	11.0	14.6	19.4	22.3	25.2	28.8	32.5		

CV

AIRCRAFT CARRIERS

			Tons per hour at speeds shown											
			10	12	14	16	18	19	20	21	22	23	24	25
CV 3	4840	25	6.5	8.5	10.5	11.7	14.8	16.7	19.2	22.3	26.0	34.5		
CV 2	5440	25	7.7	9.9	12.3	14.9	18.0	20.7	23.6	26.9	30.4	34.5	38.9	45.0*
CV 4-6	2000	12	2.5	3.0	3.5	4.4	5.6	6.6	7.9	9.3	11.1	13.3	16.0	20.0
CV 1	1500	8	1.8	2.5	3.2	3.7	4.9	5.5	6.4	7.4	8.4	9.7	11.5	14.3
* CV 2			26	27	28	28.5								
			53.3	62.1	73.9	79.8								

CA, CL

CRUISERS

			Tons per hour at speeds shown											
			10	15	18	20	22	24	26	28	30	31	32	33
CA 32-39	3000	15	3.8	5.8	7.0	8.6	10.8	13.7	17.2	22.4	28.8	33.2	38.7	46.2
CA 28-31	1500	12	2.5	3.8	4.7	6.0	7.5	9.1	11.9	15.4	20.1	23.3	26.2	30.0
CL 40-45	1900	12	1.5	2.6	4.0	5.4	6.9	8.7	10.8	14.6	19.6	22.9	27.7	34.4
CL 18	800	10	1.3	2.2	2.7	3.4	4.4	5.8	7.8	10.4	13.5	15.5	18.2	20.8
CL 12-16 19-27	1420	10	2.4	4.3	5.0	6.4	7.9	9.6	12.2	15.7	20.7	24.5	32.0	39.6
CL 10-11	850	8	1.4	2.4	2.9	3.6	4.6	6.0	8.1	10.6	14.4	17.4		
			10	12	14	16	18	20	21	22	23	24	25	26
CL 8, 9	1310	12	2.2	2.8	3.5	4.5	5.8	7.2	8.2	9.2	10.6	12.2	14.3	17.7

DL, DD

DESTROYER LEADERS - DESTROYERS

VESSELS	FUEL Tons	Port Use Day	Tons per hour at speeds shown											
			10	16	18	20	22	24	26	28	30	31	33	34
DL 1-23	450	4	1.3	2.4	2.9	3.6	4.6	6.0	7.8	10.1	13.2	15.1	19.8	22.8
DD 81-124	350	3	1.0	1.8	2.2	2.8	3.5	4.8	6.2	7.8	9.9	11.4	14.9	18.0
DD 78-80	350	3	1.0	1.8	2.2	2.8	3.5	4.8	6.2	7.8	9.9	11.4		
DD 63-77	315	3	0.9	1.6	2.0	2.6	3.3	4.3	5.7	7.3	9.0	10.3	13.2	15.6
DD 32-62	275	2	0.8	1.4	1.8	2.2	2.9	3.6	4.7	5.9				
DD 26	250	3	0.8	1.4	1.8	2.4	3.2	4.3	6.2					
DD 1-20	157a	1	0.5	0.7	0.9	1.2	1.6	2.1	2.8					

SM, SS

SUBMARINES

			Tons per hour at speeds shown											
			7	8	10	11	12	13	14	15	16	17	18	19
SS 65-78 48,57 to 64	200 180			.160	0.3	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.4	1.7
SS 49-56	270			.216	0.3	0.3	0.4	0.5	0.7	0.9	1.2	1.4		
SS 46,47	180			.144	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.1		
SM 5-8	150			.133	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.5		
SS 37-45	140		.098	.140	0.2	0.2	0.3	0.4	0.5	0.7	0.9			
SS 29-36	120			.120	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.8		
SM 2-4, 9,10	120		.077	.100	0.2	0.2	0.3	0.4						
SS 21-23	100			.107	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9		

CM

MINELAYERS

CM			MINELAYERS											
			10	11	12	13	14	15	16	17	18	19	20	
CM 1, 2	1000	10	2.5	2.8	3.0	3.3	3.6	3.9	4.3	4.8	5.6	6.5	8.0	

DM

LIGHT MINELAYERS

DM			LIGHT MINERAL OILS										
			10	11	12	13	14	15	16	17	18	19	20
DM 45,46	300	2	1.2	1.4	1.6	1.9	2.1	2.4	2.8	3.8			
DM 47-49	137a	1	0.4	.42	.49	.54	.60	.63	0.7	0.8	0.9	1.0	
DM 44	370#	2	1.2	1.4	1.8	2.5							
DM 32-43	75	1	0.5	0.7	1.0								
DM 24-31	50	1	0.4										
DM 2-23	12	0.3	0.2										
DM 1	1029	15	4.4	5.0	5.6	6.3	7.0	8.0	9.0	10.3	11.6	13.0	14.4

DM

LIGHT MINELAYERS

VESSELS	FUEL Tons	Port Use Day	Long Tons per hour at speeds shown										
			12	16	20	24	26	28	30	31	32	33	
15-18	280	5.3	1.36	1.97	3.22	5.67	6.94	8.82	10.6				
			12	16	20	24	25	26	27	28	29	30	31
1-4,6,9,12,13	275	3.2	1.2	2.0	3.2	5.5	6.7	7.8	9.1	10.5	11.5	12.5	13.7

SS, SM

SUBMARINES

			8	9	10	11	12	13	14	15	16	17	18	19 *
SS 174-187 e	280		.141	.173	.207	.244	.285	.330	.384	.452	.534	.632	.740	.864
														*19.5
														.924
SS 172-173 (e)	300		.139	.172	.207	.247	.291	.341	.401	.476	.565	.666	.779	.902
SS 170-171 (e)	268		.081	.112	.145	.180	.219	.261	.313	.370	.444	.531		
SS 169 (e)	260		.121	.153	.196	.246	.298	.375	.457	.554	.672	.824		
SS 167-168	589		.156	.213	.295	.394	.508	.656	.845	1.07	1.28	1.62		
SM 1	560		.251	.321	.402	.498	.611	.740	.887					
SS 163-165	271		.225	.285	.365	.457	.553	.697	.850	1.03	1.25	1.53	1.85	2.22
SS 159	138		.13	.15	.18	.21	.25	.30	.35					
SS 153-158	139		.123	.154	.192	.253	.281	.336						
SS 123-146	132		.137	.168	.206	.257	.308	.401						
SS 119-122	114		.10	.12	.14	.17	.20							
SS 115-118	114		.11	.14	.17	.19	.23	.27	.32	.40				
SS 111-114 107	118		.10	.12	.14	.17	.21	.25	.30	.38				
SS-105	97		.10	.12	.14	.17	.20	.25	.30					
SS-78-97	61		.07	.09	.11	.14	.17	.20	.23 at 13.5 knots					
SS 62-71	68		.06	.07	.09	.11	.14	.18	.23					

AC

COLLIERS

			10	11	12	13	14
AC 9, 10	2000 $\frac{1}{2}$	22	3.0	3.4	3.8	4.2	4.5
8	2000 $\frac{1}{2}$	12	2.6	2.9	3.2	3.5	4.1

AD

DESTROYER TENDERS

VESSELS	FUEL Tons	Port Use Day	Tons per hour at speeds shown							
			10	11	12	13	14	15	16	
AD 11-13	1344	12	1.9							
10	2055 $\frac{1}{2}$	13	2.5	3.1	4.1					
9	1554	11	1.5	1.7	1.9	2.3				
3-4	961	15	1.4	1.7	1.9	2.4	3.0	3.8	4.7	
2	930	14	1.6	1.8	2.1	2.4	2.9	3.5		

AE

AMMUNITION SHIPS

			10	11	12	13	14	15	16	
AE 2	1493	10	1.4	1.6	1.9	2.2	2.7	3.1	3.8	
1										

AF

PROVISION STORE SHIPS

			10	11	12	13	14
AF 7-9	1616	12	1.7	1.9			
6	2824	6	2.1	2.3	2.6		
1	946	11	1.2	1.4	1.6	1.9	2.3

AH

HOSPITAL SHIPS

			10	11	12	13	14	15	16	17	18	
AH 4	1757 $\frac{1}{2}$	15	2.3	2.8	3.3	3.9	4.5	5.3	6.0	6.9	8.0	
1	1951	13	1.8	2.1	2.4	2.7	3.1	3.4	3.8			

AK

CARGO SHIPS

			10	11	11.5	12	13	14
AK 12-17	1051	8	1.1	1.3	1.5			
2	351 $\frac{1}{2}$	8	1.2	1.4	1.5	1.6	1.8	2.1

AM

MINESWEEPERS

			10	11	12	13	14
AMs	275	3	0.4	0.45	0.5	0.8	1.0

AO

OILERS

			10	11	12	13	14
AO 18-21	1109	10	1.2	1.4			
15-17	1288	10	1.0	1.2			
11-13	1109	10	1.2	1.4			
9	1478	10	1.2	1.4			
1-6	824	10	1.4	1.7	2.1	2.4	2.9

AM

MINESWEEPERS

VESSELS	FUEL Tons	Port Use Day	Tons per hour at speeds shown											
			10	12	14	16	17	18	19	20	22	23	24	25
AM 17-28	252#	3	0.9	1.1	1.5	2.0	2.4	2.8	3.4	4.0				
AM 14	275	2	0.8	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.9	3.3	3.6	4.2**
			26	28	30	31								
		**	4.7	5.9										

PG

GUNBOATS

			10	12	13	15	16	17	18	19	20	21	22
PG 8	450#	3	0.9	1.3	1.6	2.4	3.2						
PG 7	400#	3	0.8	1.2	1.6	2.7							
PG 6	445#	5	1.0	1.4	1.7	2.4	2.9	3.6	4.3	5.3	6.0	7.1	8.1
PG 5	600#	8	1.3	1.8	2.3	3.6	4.3	5.5	6.7	8.9	11.0		

TRAIN VESSELS

			10	11	12	13	14	15	16	17	18	19	20
AC 1, 2	877#	10	1.6	1.9	2.4								
AD 2	233	2	0.9	1.1	1.3	1.6	2.1						
AD 1	800	12	2.0	2.3	2.6	3.3							
AF 2	500#	6	1.2 for 9 kts. maximum speed.										
AF 1	1600#	15	2.7	3.1	3.5	4.0	4.9						
AG 3	233a	2	0.9	1.1	1.3	1.6	2.1	2.7	3.4				
AG 2, 1	252#	3	0.9	1.0	1.1	1.3	1.5	1.8	2.0	2.4	2.8	3.4	
AO 5-13	1000	10	1.5	1.8	2.2								
AO 3	450	8	1.3	1.5	1.8	2.2	2.8						
AO 1, 2	100	1	0.8 for 9 kts. maximum speed.										
AS 3-5	1000	10	1.2	1.5	1.9	2.5	3.1	3.8	4.7	5.7	6.8	8.1	9.6
AV 3-5	2500#	15	3.1	3.5	4.0	4.5	5.0	5.8					
AV 2	1000	10	1.5	1.8	2.4								

AP

TRANSPORTS

VESSELS	FUEL Tons	Port Use Day	Tons per hour at speeds shown							
			10	11	12	13	14	15	16	
AP	5	1473	14	1.7	1.8	2.0	2.3	2.6	3.0	
	1	1400	14	1.5	1.7	2.0	2.3	2.7	3.3	4.1

AR

REPAIR SHIPS

				10	11	12	13	14	15	16	
AR	4	928	12	1.9	2.1	2.5	3.0	3.5	4.0	4.6	
	3	872									
	1	1834	10	1.4	1.7	1.9	2.4	3.0	3.8	5.1	

AS

SUBMARINE TENDERS

				10	11	12	13	14	15	16	
AS	10	1263	13	1.8	1.8	2.2	2.4	2.7	3.2	3.7	
	9	776	10	1.3	1.6	1.8	2.1				
	8	1203 $\frac{1}{2}$	12	1.8							
	6	1030 $\frac{1}{2}$	14	1.5	1.8	2.2					
	5	530	13	1.3	1.5	1.8	2.0	2.4	3.0	3.7	
	3	1221	9	1.4	1.7	1.9	2.3	3.0	3.8	5.1	
	2	688	6	0.9	1.1	1.4	1.6	2.1			

AV

AIRCRAFT TENDERS

				10	11	12	13	14	15	16	
AV	2	2300 $\frac{1}{2}$	12	2.9	3.4	4.0	4.6	5.7			
	1	1629	13	1.6	1.8	2.0	2.3	2.6	3.0	3.5	

AG, AT, ASR

MISCELLANEOUS and TUGS

				10	12	16	20	24	26	28	30	31	32	33	34		
AG 22, 21	275	3.2		0.8	1.1	2.0	3.3	5.3	6.8	8.2	9.8	10.8	11.9	13.7	16.0		
AG 20, 19	275	4		1.0	1.4	1.8	2.0	2.2	2.4	2.6	2.8	3.0	3.2	3.4	3.5		
AG 18, 15, 14	375	3.2		.65	1.15	2.15	2.94	4.00	5.26	6.85	9.10	12.6	19.0				
AG	17	5160	16	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1		
AG	16	4780	15	3.68	4.07	4.64	5.43	6.37	7.61	9.1	10.9	13.2	15.9	19.5	23.0		
AG 10, 11	1051	8		3.32	3.73	4.23	4.90	5.66	6.68	7.89	9.38	11.2	13.3	15.8	19.7		
ATs	200 $\frac{1}{2}$ (a)	1		1.1	1.3	1.5	at 11.5 knots										
ASRs	275	3		0.5	0.7	1.2	1.5	1.9	2.4								
				0.4	0.45	0.5	0.8	1.0									

PC, PE, PG, PR, PY

PATROL VESSELS

VESSELS	FUEL Tons	Port Use Day	Long Tons per hour at speeds shown																
			7	8	9	10	11	12	13	14	15	16	17	22					
PC (gals/hr.)	2400 gals.	---	--	--	22.5	32.0	36.3	43.2	52.0	78.4									
PEs	152	2.06	--	.36	.40	.45	.53	.62	.71	.91	1.03	1.26	1.51						
			9	10	11	12	13	14	15	16	17	18	19	20					
PG 50-51 e	502	3.0	.24	.32	.49	.75	1.08	1.48	1.93	2.40	2.94	3.51	4.18	4.96					
PG 49	234	4	.5	.7	1.0														
			7	8	9	10	11	12	13	14	15	16	17	22					
PG 22-21	450	2.71	.29	.36	.43	.55	.75	1.03											
PG 19	428 $\frac{1}{2}$	7.68	.49	.56	.63	.80	.90	1.20											
PR 8-7	78	1.23	--	.25	.31	.38	.53	.58	.71	.86	1.03	1.21							
PR 6-5	103e	1.23	--	.25	.31	.38	.53	.58	.71	.86	1.03	1.21							
PR 4-3	75	1.23	.43	.49	.55	.62	.68	.73	.85	.96	1.13								
PR 2-1	32 $\frac{1}{2}$	2.62	.09	.10	.11	.12	.13	.14	.15										
PY 10	216	3.37	--	--	.86	.96	1.05	1.15	1.28	1.44	1.59	1.81	2.04	4.22					
PY 6	303 $\frac{1}{2}$	4.32	.49	.48	.54	.60	.66	.72	.91										

PS

SLOOPS

				7	8	9	10	11	12	13	14	15	16	18	20		
PS 23-30 (e)	480	4.0		.40	.36	.38	.40	.49	.58	.76	.94	1.22	1.53	2.48	4.32		

BLUE and ORANGE FLEETSJune, 1936Part IIIOrdnance Data

GUN DATA

The following data on BLUE guns is based on the latest information available.

Where two ranges are given, the first is the theoretical range - table range; the second, the figure used at the War College as representing the estimated practical range in thousands of yards.

Caliber	Weight of Projectile	Muzzle Velocity	Maximum Elevation	Maximum Range Tables	Maximum Range Practical
16"/45	2100	2600	30°	34400	33
14"/50	1400	2800	30°	35800	34
14"/45	1400	2700	30° 15°	34500 23100	33 22
12"/50	870	2900	(b) 30° 15°	33800 23600	33 23
8"/55	260	3000	40°	35200 31800	(f) 34 (g) 30
5"/53	105	3000	(c) 30° (d) 20°	22850 18800	22 18
6"/47	105	2800	(h) 20° (i) 40°	19800 26500	19 26
5"/51	50	3150	20°	17200	17
5"/50	50	3000	20°	16700	16
5"/38	54	2600	85° A.A. (j) 35°	18200 17400	17 16
5"/25	50	2250	85° A.A.	15000	14
4"/50	33	2900	15°	13100	13
3"/50	13	2700	85° A.A. 15°	11500 8700	10 8
3"/23	13	1650	85° A.A. 15°	7800 6000	7 6
1"/1	1 e	2000 e	85° A.A.	6000 o	5

(b) Data for possible future increased elevation.

(c) Turret guns of CLs 4-13.

(g) Guns of CVs 2, 3.

(d) Other 6"/53 guns of CLs 4-13.

(h) Guns of PGs 50-51.

(f) Guns of CAs.

(i) Guns of CLs 40-43, 46-50.

(j) DLs 356-363, 381, 394-396 with twin mounts.

FIRE CONTROL DATA

Main Battery Fire of BBs, CVs, CAs, CLs, DLs, DDs (except DDs as indicated), and DMs, is director controlled. BBs and CAs have one Stable Zenith or stable vertical instrument for indirect fire.

Secondary Battery Fire and A.A. Fire of BBs, CVs, CAs, CLs (except CLs 4-13) is director controlled.

Plane Spot may be used with Main Battery Fire of BBs, CVs, CAs and CLs.

Searchlights are controlled with Secondary and A.A. batteries for night firing in BBs, CVs, CAs and CLs.

TORPEDOES

1. Torpedoes are classified according to the following table:

Type	Size	Speed	Range (yards)
C	21"	27	13500
E	18"	30	6000
F	18", 21"	35	3500
(x)		27	15000
G (y)	21"	34	10000
(z)		46	6000
H	21"	46 32.5	4500 9000

2. Type F are short length (5.3 meters) for submarines. Type E is used for aircraft.

DEPTH CHARGES AND MINES

1. Depth Charges - Effective radius 70-100 feet. Charge 300 lbs. TNT. Depth setting adjustable between 35 and 300 feet.
2. Mk VI mine - Adjustable to any depth up to 150 fathoms. Charge 300 lbs. TNT.
Mk VII mine - Drifting type. Charge 550 lbs. TNT.

AMMUNITION ALLOWANCES (Rounds per gun)

1. Combatant ships	AP	Common	H.E.	Star
12"/50 and larger	100			
8"/55	100 (CVs)	100 (CAs, CLs)		
6", 5", 4", 3" (except DD)		200		30*
4", 5" (in DD)		100		25
5" A.A. (in DD)			300	40
5" A.A.		400		75**
3"/50 and 3" A.A.			500 ^{1/2}	25
1"/1 A.A.		500		
Machine		1000		
2. Auxiliary Ships				
3", 4" - 6"		200		

*No allowance for SSs.

**BBs carry none.

^{1/2}DD and DM carry 150 H.E. only.

GUN DATA

The following data on ORANGE guns is based on the best available information.

Where two ranges are given, the first is the range table range; the second, the figure used at the War College as representing the estimated practical range in thousands of yards.

Caliber	Projectile	Velocity	Elevation	Maximum Range	
				Tables	Practical
16"/45	2205	2592	30°	33,500	32
14"/45	1400	2592	25°	27,800	27
			(b) 30°	30,400	29
			(c) 35°	32,500	31
8"/50	254	2789	30°	28,400	27
			(d) 45°	32,200	31
6"/50	100	2789	25°	19,400	18
			(f) 45°	23,800	23
5 1/2"/50	84	2789	(g) 25°	19,200	18
			(h) 30°	20,700	20
5 1/4"/50	63	2900	85° AA a	21,450 a	20 a
			25°	19,000	18
4 1/2"/45	45	2772	25°	15,900	15
4 1/2"/45 AA	45	2772	85°	19,900	19
4 1/2"/40	45	2165	20°	10,800	10
3"/40	12.5	2321	20°	6,000	5
3"/40 AA	12.5	2321	85°	8,000	7
3"/25 AA	12.5	1492	85°	7,000	6

- (b) In BBs 1, 3 and 4.
 (c) In BBs 5-8.
 (d) Assuming 70° angle of elevation for MYOKO Class.
 (f) CLs 40-45 and CMs.
 (g) In BBs, except BBs 1, 3, and 4.
 (h) In all other vessels.

FIRE CONTROL DATA

Main Battery Fire of BBs, CVs, CAs, CLs, CMs, DLs and DDs (except DDs as indicated) is director controlled. BBs, and CAs are assumed to have one stable Zenith instrument for indirect fire.

Secondary Battery Fire and A.A. Fire of BBs, CVs, CAs and CLs 40-45 is director controlled.

Plane Spot may be used with Main Battery Fire of BBs, CVs, CAs and CLs.

Searchlights are controlled with Secondary and A.A. batteries for night firing in BBs, CVs, CAs and CLs.

TORPEDO DATA

1. ORANGE torpedoes are classified by types according to the following table:-

Type	Size	Speed	Range
A	21"	26	17,000
B	21"	28	16,400
C	21"	27	13,500
E	18"	30	6,000
F	18", 21"	35	3,500
(x) G (y) (z)	21"	27 34 46	15,000 10,000 6,000
H	21"	32.5 46	9,000 4,500

2. Type F (18") is a short torpedo for use in SS and torpedo-planes.

3. All torpedoes are of Whitehead design (reciprocating engines).

DEPTH CHARGES AND MINES

1. Depth Charges. Effective radius 70-100 feet. Charge 300 pounds. Adjustable depth settings 35 to 300 feet.

2. Mines. Anchored: adjustable to any depth up to 150 fathoms. 300 pounds explosive. Drifting: 550 pounds explosive.

AMMUNITION ALLOWANCES (Rounds per gun)

	A.P.	Common	H.E.	Star
(1) <u>Combatant ships</u>				
8"/50 or larger	100			
6", 5 1/2", 5 1/4", 3" (except DDs)*		200✓		30**
4 1/2" in L, Int or S ships		225		50
in Des size		100		25
in Subs		100		
4 1/2" AA			400	50
3" AA			500***	25
Machine		1000		
(2) <u>Auxiliary Ships</u>				
3" - 6"		200		

* DLs and DDs with 5 1/4" gun, 150 common.

** No allowance for submarines.

*** DDs carry only 150 H.E.

BLUE SHIP BOMB AND TORPEDO ALLOWANCES

Ship or Type	1000 [#]	Bombs		Torpedoes
		500 [#]	100 [#]	
CV-1 LANGLEY	--	(1) 15-70	397-1310	---
CV-2 LEXINGTON	119-230	217-436	753	36 E (3)
CV-3 SARATOGA	119-230	217-436	753	36 E (3)
CV-4 RANGER	125 e	344 o	1500 e	---
CV-5	130 e	350 e	1500 e	e 36 E (3)
CV-6	130 e	350 e	1500 e	e 36 E (3)
Heavy Cruisers	---	---	936	---
Light Cruisers	---	---	520	
BBs	---	---	293-396	
AV-1 WRIGHT	61	81-151	304	
AV-2 JASON (2)	61-6	81-6	305-108	
AZ-1 PATOKA	24	48	50	

Notes -

- (1) First figure in each case represents allowance. When followed by second figure, this indicates maximum stowage capacity.
- (2) Bomb stowage to carry allowance not yet installed.
- (3) A shore reserve of 54 additional torpedoes available. This reserve is estimated for CVs 5 and 6.

BLUE FLEET AIRCRAFT ORGANIZATION

(Figures in parenthesis indicate number of planes attached to Squadron).

Base Unit	VF	VS	VB	VT	VP	VJ
CV-1 (LANGLEY)	Training purposes only. No operating squadrons assigned. (1)					
CV-2 (LEXINGTON)	VF-2(18VF-1 VS*)	VS-3(18)	VB-3(18) VB-5(18VB-1VS*)			
CV-3 (SARATOGA)	VF-6(18VF-1 VS*)	VS-2(18)	VB-2(18VB-1 VS*)	VT-2(18)		
CV-4 (RANGER)	VF-3(18VF-1 VS*) VF-5(18VF-1 VS*)	VS-1(18)	VB-3(18)			
CV-5(20,000 tons)	VF-7(18VF-1 VS*)	VS-15(18)	VB-6(18VB-1 VS*)	VT-5(18)		
CV-6(20,000 tons)	VF-8(18VF-1 VS*)	VS-16(18)	VB-7(18VB-1 VS*)	VT-6(18)		
AV-1 (WRIGHT)					VP-7(6) VP-9(6)	VJ-1(8VJ-2VR) VJ-2(6VJ-1VR)
AV-2 (JASON)					VP-11(6) VP-12(6) ^a	
BBs	3 VO per BB. Squadron number corresponds to assigned Batdiv Number.					
Heavy Cruisers	4 VS per ship. Squadron number corresponds to assigned Crudi Number.					
Light Cruisers	CLs 40-43, 46-50, 8 VS per ship (two (2) in crates). CLs 4-13, 2 VS per ship. Squadron number corresponds to assigned Crudi Number.					
F.A.B. Coco Solo					VP-2(12) VP-3(12) VP-5(12)	
F.A.B. Pearl Harbor					VP-1(12) VP-4(12) VP-6(12) VP-8(6) VP-10(6)	

Note: Capacity output M plus 6 months 2000 planes.

- (1) Can carry 18 VF and 18 VB or VT.
* Liaison duty, equipped with radio.

ORANGE SHIP BOMB AND TORPEDO ALLOWANCES

Ship or Type	1000 $\frac{1}{2}$	Bombs		Torpedoes
		500 $\frac{1}{2}$	100 $\frac{1}{2}$	
CV-1	24	24	500	24 F
CV-2	200	400	750	72 F
CV-3	200	400	750	72 F
CV-4	75	206	900	48 F
CV-5, 6	75	200	900	24 F
AV-2	62	151	407	
AV-3-5	62	151	407	
BB			76	
Heavy Cruisers			28	
Light Cruisers			20	

ORANGE FLEET AIRCRAFT ORGANIZATION

(Figures in parenthesis indicate number of planes attached to Squadron).

Base Unit	VF	VS	VB	VT	VO	VP
CV-1 (HOSHO)	VF-1 (16)		VB-1 (8)	VT-1 (8)		
CV-2 (AKAGI)	VF-2 (16) VF-12 (16)		VB-2 (16)	VT-2 (16) VT-12 (8)		
CV-3 (KAGA)	VF-3 (16) VF-13 (16)		VB-3 (16)	VT-3 (16) VT-13 (16)		
CV-4 (RYUJO)	VF-4 (16)		VB-4 (8)	VT-4 (16)		
CV-5,6 (10,000 tons e)	VF-5 (16)		VB-5 (16)	VT-5 (8)		
AV-2 (NOTORO)						VP-2 (16)
AV-3 (KAMO I)						VP-3 (16)
AV-4 (Chitose) Auth.						VP-4 (16)
AV-5 (Mitsuho) Auth.						VP-5 (16)
BB	2 VO per ship. Squadron number corresponds to assigned Batdiv number.					
Heavy Cruisers	4 VS per ship for CAs 32-39; 2 VS per ship for CAs 28-31. Squadron number corresponds to assigned Crudiv number.					
Light Cruisers	2 VS per ship. Squadron number corresponds to assigned Crudiv number.					

SHORE BASED NAVAL AIRCRAFT

<u>Kasumigaura</u>	VF-20 (16)	VS-20(16)s	VT-20 (16)	VO-20(16)s
	VF-21 (16)		VT-21 (16)	VO-21(16)s
<u>Yokosuka</u>	VF-22 (16)		VT-22 (16)	VO-22(16)s
	VF-23 (8)		VT-23 (16)	VO-23(16)s VP-20 (16)
<u>Omura</u>	VF-24 (16)		VT-24 (16)	
			VT-25 (8)	
<u>Sasebo</u>	VF-25 (8)			VO-24(16)s
				VO-25(16)s
<u>Kure</u>				VO-26(16)s

(Note:- In addition to above, a Fleet Reserve of 200 planes is kept available).

Capacity output M plus 6 months - 1000 planes.

(s) - Seaplanes.

BLUE FLEET - Part IV
Coast Guard Vessels
of possible use for war purposes; data as
received.

(Note: There is no fuel consumption table
available for these vessels).

NAME	NO.	DATE	SIZE	STAND. TON- NAGE	SPEED and DRIVE	FUEL Tons	RADIUS Sustained	RADIUS Economical	COMP.	LIFE	GUNS					
											No.	Caliber	Range	Number		
													Side	Bow	Qtr.	
CRUISING CUTTERS											CRUISING CUTTERS					
Geo. M. Bibb	71	1936-	Des	2300	20 G	400	4500	6000	175	1.6	4	6"/47	19	4	2	2
John C. Spencer	70	1937		x	x	x	x	x	x			x				
Alex. Hamilton	69															
Roger B. Taney	68															
Wm. J. Duane	67															
Samuel D. Ingham	66															
Geo. W. Campbell	65															
5-ESCANABA Type	56- 60	1934- 1935	Des	960	13.4G	145	1350	5079	105	1.2	2	3"/50	8	2	2	0
ACUSINET	18	1908	Des	859	12.5R	182	2428	3810	51	1.1	1	3"/50	8	1	1	0
APACHE	?	1891		763	11.5R	100	1378	2877	54		3	6 pdr	-	3	1	2
CAHOKIA	?	1920		750		148	3200	5140	35		2	6 pdr	-	2	2	0
CARRABASSET	?	1919		1133	11.9R	280	4140	6050	51	1.3	2	6 pdr	-	2	2	0
CAYUGA	54	1932		1983	16.5E	325	4560	7542	169	1.5	3	5"/51 - 2 3"/50h	17 - 10	3-2	1-2	2-0
CHAMPLAIN	48	1929	Des	1975	16.5E	325	4560	7542	169	1.5	3	5"/51 - 2 3"/50h	17 - 10	3-2	1-2	2-0
CHELAP	45	1928														
ESCANABA	55	1932		960	13.4G	145	1350	5079	105	1.2	2	3"/50	8	2	2	0
GRESHAM	1	1897		1090	15 R	194	3400	6415	106		4	3"/50	8	4	2	2
HAIDA	37	1921		1780	15 E	315	3600	5570	169	1.5	3	5"/51 - 1 3"/50h	17- 10	3-1	1-1	2-0
ITASCA	50	1930	Des	1983	16.5E	325	4560	7542	169	1.5	3	5"/51 - 2 3"/50h	17 - 10	3-2	1-2	2-0
KICKAPOO	?	1919		840	11.5R	160	2386	3170	35	1.1	2	6 pdr	-	2	2	0
MANHATTAN	30	1918		406	9.3R	40	1182	1310	29	0.9	2	1 pdr	-	2	2	0
MASCOUTIN	?	1920		?	11.5R	200	3065	3800	35	?	2	6 pdr	-	2	2	0
MENDOTA	49	1929		1975	16.5E	325	4560	7542	169	1.5	3	5"/51 - 2 3"/50h	17 - 10	3-2	1-2	2-0
MODOC	39	1921	Des	1780	15 E	315	3600	5790	161	1.5	3	5"/51 - 1 3"/50h	17 - 10	3-1	1-1	2-0
MOJAVE	38	1921														
NORTHLAND	44	1927		2065	11 CE	220	10280	18800	169		4	4"/50	13	4	2	2
OSSIPEE	26	1915		997	12.3R	204	2000	4265	106	1.2	2	3"/50 - 1 4"/50	8 - 13	2-1	0-1	2-0
PATLICO	15	1907	Des	455	9.8 R	50	817	1420	38	0.9	2	6 pdr	-	2	2	0
POINTCHARTRAIN	46	1928		1975	16.5E	325	4560	7542	169	1.5	3	5"/51 - 2 3"/50h	17 - 10	3-2	1-2	2-0
REDUING	?	1919		1210	12.8R	260	3910	6550	62	1.3	2	3"/23	6	2	2	0
SARAFAC	52	1930		1983	16.5E	325	4560	7542	169	1.5	3	5"/51 - 2 3"/50h	17 - 10	3-2	1-2	2-0
SAUTEZ	?	1920		?	11.5R	225	3230	4670	35	?	2	6 pdr	-	2	2	0
SEBAGO	51	1930	Des	1983	16.5E	325	4560	7542	169	1.5	3	5"/51 - 2 3"/50h	17 - 10	3-2	1-2	2-0
SENECA	6	1900		900	13.3R	135	1515	2443	106	1.2	3	3"/50	8	3	2	1
SENECA	17	1908		1630	11.2R	310	3235	4795	142	1.4	4	4"/50	13	4	2	2
SHAWNEE	40	1922		900	12 R	160	2520	4300	51	1.2	2	6 pdr	-	2	2	0
SHOSHONE	53	1930		1983	16.5E	325	4560	7542	169	1.5	3	5"/51 - 2 3"/50h	17 - 10	3-2	1-2	2-0
SHOSHONE	16	1908	Des	879	12 R	193	2261	2920	51	1.2	1	3"/50	8	1	1	0
TALOE	47	1928		1975	16.5E	325	4560	7542	169		3	5"/51 - 2 3"/50h	17 - 10	3-2	1-2	2-0
TALLAPOOSA	27	1915		912	11.8R	175	4120	7660	106		2	3"/50 - 1 4"/50	8-13	2-1	0-1	2-0
TAMAROA	?	1919		788	10.5R	146	2844	3800	35	1.1	2	6 pdr	-	2	2	0
TALPA	36	1921		1780	15 E	315	3600	5645	161	1.5	3	5"/51 - 1 3"/50h	17 - 10	3-1	1-1	2-0
TUSCARORA	7	1902	Des	739	11.4R	110	1760	2280	88	1.1	2	3"/50	8	2	2	0
UINALGA	23	1912		1161	12 R	250	2320	3440	106	1.3	2	3"/50	8	2	2	0
YAMACRAW	21	1909		1210	14.1R	240	2710	3900	142		1	4"/50 - 2 3"/50	13 - 8	1-2	1-0	0-2

165-FOOT PATROL BOATS

[illegible]