

~~H-74.~~

CONFIDENTIAL
NWC-130

~~Nonregistered
REGISTER N° 1~~



968

~~LIBRARY~~

~~... to the Library of Congress
... to the Historical Office
... Registered Publication Board~~

AIRPLANE CHARACTERISTICS

FOR USE WITH

BLUE FLEET

ORANGE FLEET

BLACK, GOLD AND SILVER FLEETS

RED FLEET

AND

MANEUVER RULES

UNITED STATES NAVY

1941

DECLASSIFIED IAW DOD MEMO OF 3 MAY 1972, SUBJ:
DECLASSIFICATION OF WWII RECORDS

NAVAL WAR COLLEGE

Newport, R. I.

CONFIDENTIAL
NWC-130

~~REGISTER N^o 1~~

AIRPLANE CHARACTERISTICS

FOR USE WITH

BLUE FLEET

ORANGE FLEET

BLACK, GOLD AND SILVER FLEETS

RED FLEET

AND

MANEUVER RULES

UNITED STATES NAVY

1941

NAVAL WAR COLLEGE

Newport, R. I.

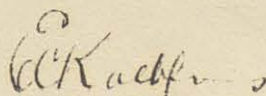
1. "Airplane Characteristics" (NWC-130) is herewith issued for the use of the Naval Service as one of the elements of the Confidential Features of the Tactical Maneuver Outfit, and supersedes "Airplane Characteristics" (NWC-126). The latter publication should be destroyed by burning and report of destruction made to the Chief of Naval Operations (Division of Naval Communications - Registered Publication Section).

2. This document is a confidential registered publication and holders are required to observe the instructions contained in RPS-4, issued by the Office of Naval Operations, and Article 76, U.S. Navy Regulations, 1920.

3. In accordance with those instructions, NWC-130 will not be removed from the limits of the ship or station to which issued, nor carried in aircraft for use therein. It may be transported by registered mail within the continental limits of the United States and by commissioned officer messenger outside the continental limits. This publication is assigned Class C stowage.

4. IT IS FORBIDDEN TO MAKE EXTRACTS FROM OR TO COPY THIS PUBLICATION WITHOUT SPECIFIC AUTHORITY FROM THE CHIEF OF NAVAL OPERATIONS, EXCEPT AS PROVIDED FOR IN RPS-4, ART. 516.

5. This publication is prepared by the Naval War College but should be accounted for by Commanding Officers to the Chief of Naval Operations (Division of Naval Communications - Registered Publication Section) upon receipt, transfer, loss or destruction, and quarterly on March 31, June 30, September 30 and December 31.


E.C. Kaibfus
Rear Admiral, U.S. Navy
President, Naval War College.

AIRPLANE CHARACTERISTICS

(Approximations prepared for War College Chart Maneuvers only. June 1941)

CONFIDENTIAL

Assigned to	AIRPLANE			EQUIPMENT													PERFORMANCE														Airplane Model						
	Class	Model	Type	GUNS				RADIO		ATTACHMENTS FOR							LOAD CONDITION	TIME TO CLIMB TO:		MAXIMUM SPEED			CRUISING SPEED			ECONOMICAL SPEED			FUEL	OIL							
				Number	Caliber	Mount	Rounds Ammunition	Total Number of Sets	Type	Normal Day Range	BOMBS (Class)				Torpedo	Smoke		Parachute Flares	Service Ceiling	10000'	20000'	Air Speed	Range	Endurance	Fuel Consumption	Air Speed	Range	Endurance				Fuel Consumption	Air Speed	Range	Endurance	Fuel Consumption	
											1000*	500*	375* Depth	100*						10000'	20000'																
				Ft.	Min.	Min.	Kn	Kn	Hr.	Gal./Hr.	Kn	Kn	Hr.	Gal./Hr.	Kn	Kn		Hr.	Gal./Hr.																		
Column	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	
CARRIERS AND LAND BASES	VF	F2A-2	L	4	.50	Fix	900	1	P	50-200	-	-	-	2	-	-	-	Fighter - Max. Fuel Bomber, 2-100*	34600	3.8	8.1	280	420	1.5	107	210	970	4.6	35	170	1170	7.0	23	160	110	11	F2A-2
		F4F-3	L	4	.50	Fix	1720	1	P	50-200	-	-	-	2	-	-	-	Fighter - Max. Fuel Bomber, 2-100*	37600	4.2	8.5	290	410	1.4	114	220	890	4.1	39	175	1050	6.0	27	160	110	9	F4F-3
	VSB	SB2U-2	L	1	.30	Fix	500	1	P	100	1	1	2	2	-	1 L or 1 S	2	Scout Bomber, 1-500* or 2-100* or 2 D.C.	26500	7.9	20.2	220	440	2.0	89	165	990	6.0	30	135	1170	8.8	20	180	110	8	SB2U-2
				1	.30	Flex	600	1	T	500	-	-	-	-	-	-	-	Bomber, 1-1000*	26300	8.1	20.8	220	240	1.1	89	165	540	3.3	30	130	610	4.7	21	100	80	8	
		SBD-2 & SBD-3	L	2	.50	Flex	360	1	P	100-500	1	1	2	2	-	1 L or 2 S	2	Scout - Max. Fuel Bomber, 1-500* 2-100* or 2 S smoke tank, or 2 D.C.	28900	7.1	17.4	250	830	3.3	94	190	1720	9.1	34	150	1750	11.6	27	310	190	19	SBD-2 & SBD-3
	VSB	SB2C-1	L	2	.50	Fix	800	1	P	100	1	2	2	2	-	1 L or 2 S	2	Scout - Max. Fuel Bomber, 1-500* 2-100* or 2 S smoke tank, or 2 D.C.	29000	7.6	17.2	220	330	1.5	93	165	670	4.1	34	130	680	5.2	27	140	110	10	
1				.50	Flex	440	1	T	500	-	-	-	-	-	-	-	-	Bomber, 1-1000* or 1 L smoke tank	28300	8.1	18.7	215	240	1.1	91	160	470	2.9	34	130	470	3.6	28	100	80	8	SB2C-1
VTB	TBD-1	L	1	.30	Flex	500	1	P	100	1	3	3	12	1	1 L	2	Torpedo Bomber, 1-1000* or 2-500* or 8-100* or 3 D.C. or Smoker Bomber, 3-500* 8-100* or 3 D.C.	19400	12.2	49.3	180	170	.97	100	135	360	2.7	35	110	400	3.7	26	96	80	8	TBD-1	
			1	.30	Flex	600	1	T	500	-	-	-	-	-	-	-	-	*Scout (extra fuel tank)	20400	10.7	38.3	180	320	1.8	100	135	700	5.2	35	105	770	7.2	25	180	110	12	
VTB	TBF-1	L	1	.30	Flex	500	1	P	100	1	4	4	12	1	1 L	2	Torpedo Bomber, 1-1000* 12-100* or 1 L smoke tank	26900	6.8	17.0	255	490	1.9	158	190	1040	5.4	56	155	1140	7.4	41	301	170	17	TBF-1	
			1	.30	Flex	200	1	T	500	-	-	-	-	-	-	-	-	Bomber, 4-500* 4 D.C. Scout - Max. Fuel	29000	5.5	13.5	260	340	1.3	153	195	720	3.7	54	155	830	5.3	38	199	110	11	
VJ	J2F-4	A	1	.30	Flex	600	1	P	100-500	-	-	-	-	-	2 S	2	Utility, or Smoker (light)	27600	6.2	15.7	260	340	1.3	153	195	700	3.6	55	155	790	5.1	39	199	110	11		
27000																		27000	6.7	17.0	255	920	3.6	159	190	2020	10.5	54	155	2240	14.6	39	571	320	32	J2F-4	

Column 1: VF Single Seat Fighter
VSB Scout or Dive Bomber
VTB Torpedo-plane or Sight Bomber
VOS Observation or Scout
VSO Utility
VJ Utility
VS Scout
VP Patrol-plane or Sight Bomber
VB(A) Sight Bomber, Army

Column 3: L = Landplane S = Seaplane
P = Flying Boat (patrol-plane)
A = Amphibian
Note: Army airplanes are not equipped to land on carriers.
Column 6: Fix = Fixed Mount
Flex = Flexible Mount

Column 8: All models include a Radio Direction Finder.
Two airplanes of each squadron other than VF carry in addition a combination set of range P-50, T-200.
In VF squadrons, one liaison plane is so equipped.

Column 9: P = Radiophone
T = Radio Telegraph
Column 16: S = Small Tank
L = Large Tank
Column 17: Additional Flares may be carried in lieu of 100* bombs. In large airplanes they can be carried in quantity in the fuselage.

Column 34: 1 gal. fuel = 6.0 lbs.
Column 35: 1 gal. oil = 7.5 lbs.
* Not in use in U.S. Navy but may be used when installation is provided for in War College maneuvers.
** Also Tender and Shorebased.

Small smoke tanks may be replaced by 375* depth charges.
(Air speeds have been entered to nearest five miles)