

UNCLASSIFIED

CONFIDENTIAL
12-17-42BU. OF AERO., NAVY DEPT.
PERFORMANCE DATA

MODEL XF4U-3 LAND.

(F)	FIGHTER	FIGHTER	FIGHTER			
GROSS WEIGHT LBS	11623	11623	13143			
WEIGHT EMPTY "		9039				
FUEL GALS.	178	178	363			
FX. GUNS/RDS. AMM.	6-.50/1200		(1)			
" " "						
WING LOADING	37.0	37.0	41.8			
POWER LOADING						
ENGINE	XR-2800-16 (2:1) Turbo					
ENGINE RATING (BHP/RPM/ALT)	NORMAL			MILITARY		
	1675/2550/S.L.-5600			2000/2700/S.L.-30000		
	1625/2550/6500-30000					
	2000/2700/T.O.					
ENG. RATE FOR PERF	Military	Normal	Normal			
VM-SEA LEVEL MPH	314	297	295			
- 5000' (Norm) "	332	311	309			
- 10000' "	348	324				
- 15000' "	364	340	338			
- 20000' "	381	356				
- 25000' "	398	373				
- 30000' "	412	391	385			
- 35000' "	376	349				
- " "						
CLIMB-S.L. FT/MIN	2990	2430	2050			
- 30000' "	2240	1780	1400			
TIME-10000' MIN	3.5	4.3	5.1			
- 20000' "	7.3	9.0	10.9			
SERVICE CEIL. FT	38400	37300	35900			
VS-GR. WEIGHT MPH		82.7	87.9			
- LESS FUEL "		78.8	80.2			
END/60% VM		3.4/204	6.4/203			
/75 " 15000' HR/MPH		2.4/255	4.7/253			
/90 " "						
/VM " "		.8/340	1.6/338			
MAX END/VAV+ HR/MPH						
" RANGE/VAV+ MI/MPH		780/175	1430/180			
TAKE-OFF CALM FT.		574	784			
(LAND) -15 KN. "		350	500			
-25 KN. "		237	344			
TAKE-OFF (SEA) SEC		---	---			

CLEARED
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COMNAVAIRSYS COM

A. W. Trucella
Public Information Officer
By direction of the Commander

REMARKS IFF equipment in all loadings. F4U-1 weight and loading data with estimated effect of power plant change.

(1) 6-.50/2350

RE-ISSUED FROM ORIGINAL DATE - Range and Endurance figures recomputed incorporating a suitable increase in S.F.C. to conform with past experience.

BU. OF AERO., NAVY DEPT.
GENERAL DATA

12-17-42

MODEL XF4U-3 LAND.

GENERAL

GROSS WEIGHT _____ LBS. C.G. _____ % M.A.C. C.G. FROM T. L. _____ INS.
MAX. CENTER OF GRAVITY RANGE _____ TO _____ % M.A.C.

SPAN _____ 41'-0" HEIGHT, LEVEL _____ 15'-0"
" , FOLDED _____ 17'-1" " , ON WHEELS _____
LENGTH, LEVEL _____ 33'-7" " , " " , FOLDED _____ 16'-1"
" , ON WHEELS _____ " , HOIST. ATTITUDE _____ 11'-9"

WING AREA _____ 314 SQ. FT. M.A.C. _____ 94.0 INS.
WING SECTION _____ NACA 23018 to 23009

DISP, MAIN FLOAT _____ LBS. DISP, AUX. FLOAT _____ LBS.
BEAM, MN. FL., HULL _____

PROPELLER

TYPE _____ Ham. Std. C.S. NO. OF BLADES _____ 4
DIAMETER _____ 13'-2" BLADE DES. NO. _____ 6501A-0

FUEL TANKAGE

FIXED TANKS (PROTECTED) _____ 237 GALS. TOTAL, FIXED TANKS _____ 363 GALS.
" " (UNPROTECT) _____ 126 GALS. " , " (PROT. REMOVED) _____ GALS.
AUX. TANKS, DROPPABLE _____ None

OIL TANKAGE

TOTAL (PROTECT., UNPROTECT) _____ 20 GALS. TOTAL (PROT. REMOVED) _____ 20 GALS.

PROV. FOR BOMBS, ETC.

2-100#

REMARKS