

CONFIDENTIAL

BU. OF AERO., NAVY DEPT.  
PERFORMANCE DATA

MODEL XF4F-8 LAND.

11-1-42

	(G)	FIGHTER	FIGHTER	FIGHTER			
GROSS WEIGHT	LBS.	7049	7049	7850			
WEIGHT EMPTY	"		5334				
FUEL	GALS.	117	117	233			
FX. GUNS/RDS. AMM.			4-.50/960				
WING LOADING		27.1	27.1	30.2			
POWER LOADING		7.8	7.8	8.7			
ENGINE		R-1820-56 (3:2)					
ENGINE RATING (BHP/RPM/ALT)		NORMAL		MILITARY			
		1200/2500/SL-5500		1300/2600/SL-4000			
		900/2500/13300-18500		1000/2600/11200-17500			
		1350/2700/T.O.					
ENG. RATE FOR PERE		Military	Normal	Normal			
VM-SEA LEVEL	MPH	294	285	263			
-5500' (Norm)	"	307/4000	303	281			
-13300'	"	299/11200	294				
-18500'	"	319/17500	311	285			
-20400'	"	325/19500	317	291			
-25000'	"	310	303				
-30000'	"	288	281				
CLIMB-S.L.	FT/MIN	3030	2720	2360			
18500'	"	2000*	1730	1380			
TIME-10000'	MIN	3.7	4.0	6.9			
-20000'	"	8.7	9.5	15.3			
SERVICE CEIL.	FT	34200	34000	31900			
VS-GR. WEIGHT	MPH		73.5	77.6			
-LESS FUEL	"		69.7	70.4			
END/60% VM	HR/MPH		5.1/187	9.2/171			
/75 "	"		3.6/233	6.6/213			
/90 "	"		1.7/280	3.3/256			
/VM	"		1.2/311	2.2/285			
MAX END/VAV*	HR/MPH		7.2/-	12.4/-			
" RANGE/VAV*	MI/MPH		1010/164	1680/148			
TAKE-OFF: CALM	FT.		360	465			
(LAND) -15 KN.	"		217	290			
-25 KN.	"		141	194			
TAKE-OFF (SEA)	SEC.	-	-	-			

\* AT 5500 FT. \* At 17500 ft.

REMARKS

IFF equipment in all loadings. Production model will have provision for 1600 rds. of ammunition. Data based on Chg. G, C-99340. Take-off data based on Bureau estimate; guarantee is 180 ft. in 25 kn. wind.

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BU. OF AERO., NAVY DEPT.  
GENERAL DATA

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MODEL XF4F-8 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 \_\_\_\_\_ 38'-0" \_\_\_\_\_ HEIGHT, LEVEL \_\_\_\_\_ 11'-11" \_\_\_\_\_  
" , FOLDED \_\_\_\_\_ " , ON WHEELS \_\_\_\_\_  
LENGTH, LEVEL \_\_\_\_\_ 28'-11" \_\_\_\_\_ " , " " , FOLDED \_\_\_\_\_  
" , ON WHEELS \_\_\_\_\_ " , HOIST. ATTITUDE \_\_\_\_\_

WING AREA \_\_\_\_\_ 260 \_\_\_\_\_ SQ. FT. M.A.C. \_\_\_\_\_ 84.1 \_\_\_\_\_ INS.  
WING SECTION \_\_\_\_\_ NACA 23000 \_\_\_\_\_

DISP, MAIN FLOAT \_\_\_\_\_ - \_\_\_\_\_ LBS. DISP, AUX. FLOAT \_\_\_\_\_ - \_\_\_\_\_ LBS.  
BEAM, MN. FL., HULL \_\_\_\_\_ - \_\_\_\_\_

PROPELLER

TYPE \_\_\_\_\_ Ham. Std. C.S. \_\_\_\_\_ NO. OF BLADES \_\_\_\_\_ 3 \_\_\_\_\_  
DIAMETER \_\_\_\_\_ 10'-1" \_\_\_\_\_ BLADE DES. NO. \_\_\_\_\_ 6393 \_\_\_\_\_

FUEL TANKAGE

FIXED TANKS (PROTECTED) \_\_\_\_\_ 117 \_\_\_\_\_ GALS. TOTAL, FIXED TANKS \_\_\_\_\_ 117 \_\_\_\_\_ GALS.  
" " (UNPROTECT) \_\_\_\_\_ None \_\_\_\_\_ GALS. " , " (PROT. REMOVED) \_\_\_\_\_ 130 \_\_\_\_\_ GALS.  
AUX. TANKS, DROPPABLE \_\_\_\_\_ 2 @ 58 \_\_\_\_\_ Gals.

OIL TANKAGE

TOTAL (PROTECT., ~~UNPROTECT.~~) \_\_\_\_\_ 11 \_\_\_\_\_ GALS. TOTAL (PROT. REMOVED) \_\_\_\_\_ 11 \_\_\_\_\_ GALS.

PROV. FOR BOMBS, ETC.

None  
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REMARKS

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