

COLUMN NUMBER		1	2	3	4		
LOADING CONDITION		FIGHTER	FIGHTER	FIGHTER	FIGHTER		
GROSS WEIGHT	LBS.	12039	12039	12039	12836		
EMPTY WEIGHT - Actual	LBS.	8982					
FUEL/OIL	GALS.	237/13	237/13	237/13	361/20		
FIXED GUNS/AMMUNITION		6-.50/2350rds					
FLEXIBLE GUNS/AMMUNITION		None					
ENGINE POWER USED FOR PERFORMANCE		WATER INJECTION	MILITARY	NORMAL	NORMAL		
WING LOADING	LBS/SQ.FT.	38.3	38.3	38.3	40.8		
POWER LOADING ①	LBS/BHP.	6.1	7.3	7.8	8.3		
V-MAX. SEA LEVEL	MPH.	359	350	328	327		
V-MAX. AIRPLANE CRIT. ALT.	MPH.	417/19900	407/23900	405/24800	403/24800		
V-STALL. GROSS WEIGHT. ②	MPH.	87.0	87.0	87.0	89.8		
V-STALL. WITHOUT FUEL ②	MPH.	81.8	81.8	81.8	81.9		
TIME-TO-CLIMB -10000FT.-	MIN.	3.6	4.4	5.2	5.8		
TIME-TO-CLIMB -20000FT.-	MIN.	7.7	9.5	10.8	12.3		
SERVICE CEILING	FT.	36900	36800	37000	36100		
TAKE-OFF DISTANCE -CALM-	FT.			710	825		
TAKE-OFF DISTANCE -15 KN-	FT.			475	556		
TAKE-OFF DISTANCE -25 KN-	FT.			340	408		
RATE OF CLIMB -SL-	FT./MIN.	2890	2550	1990	1780		
MAX. RANGE /V-AV. ③	ST. MI./MPH.			1015/182	1515/186		
BOMBING RADIUS /V-AV.-20% R-	NMI./KN.						
BOMBING RADIUS /V-AV.-33% R-	NMI./KN.						
PATROL RADIUS /V-AV.-20% R-	NMI./KN.						
PATROL RADIUS /V-AV.-33% R-	NMI./KN.						
SCOUT. RADIUS	NMI.						
COMBAT RADIUS	NMI.			125	350		
ENGINE /PROP.GEAR RATIO		P&W R - 2800 - 8W (2:1)					
ENGINE RATING BHP/RPM/ALT.	WATER INJ.	2135/2700/SL-12400	MILITARY	2000/2700/S.L.-1700	NORMAL	1675/2550/S.L.-5500	2000/2700
		1975/2700/14500		1755/2700/5400		1570/2550/7200	
		1975/2700/16900		1800/2700/15700		1625/2550/16750	
				1640/2700/18100		1530/2550/18200	
				1650/2700/21000		1550/2550/22000	
STATUTE MILES USED-EXCEPT-RADIUS IS GIVEN IN NAUTICAL MILES & KNOTS.							
NOTE	① BHP AT MAX.CRIT.ALT. ② STALL-WITHOUT POWER ③ AT 1500' ALTITUDE						

FOR OPEN PUBLICATION
15 JUN 1984
COMNAVAIRNS/SC/M

Public Information Office
by direction of the Command

TANKAGE IN GALLONS		OIL	FUEL	OFFENSIVE ARMAMENT
FIXED	PROTECTED	24	237	None
	UNPROTECTED		124	CLASSIFICATION (CANCELED) () BY AUTHORITY OF AIR-7203 ON 6-14-84 <i>D. H. Parsons</i> (DATE) (SIGNATURE) (RANK) NAVAL AIR SYSTEMS COMMAND DEPARTMENT OF THE NAVY
	TOTAL-INCL. PROT.	24	361	
	INCREASE-REMOVED PROTECTION		FIXED	
AUX.				
	DROPPABLE - FUSELAGE - (EXT)		175	
	DROPPABLE + Protected	24	412	
	PROTECTED+UNPROTECTED+DROPPABLE.	24	536	

REMARKS - 10 gals. water injection fluid in all conditions. The following changes are incorporated:
Contract - thru 86; Service - thru #82.

SUPERSEDES 1 JULY 1943
DATE - MAR. 1, 1944

PAGE 1

DECLASSIFIED IN ACCORDANCE WITH E. O. MODEL-F4U-1

AIRPLANE CHARACTERISTICS & PERFORMANCE

BUREAU OF AERONAUTICS-NAVY DEPT.

COLUMN NUMBER	5	6	7
LOADING CONDITION	FIGHTER One Tank External	FIGHTER One Tank External	FERRY One Tank External
GROSS WEIGHT LBS.	13259	14003	12763
EMPTY WEIGHT - Actual - LBS.	8982		8849
FUEL/OIL GALS.	412/24	536/24	536/24
FIXED GUNS/AMMUNITION	6-.50/2350 rds		None
FLEXIBLE GUNS/AMMUNITION	None		None
ENGINE POWER USED FOR PERFORMANCE	NORMAL	NORMAL	NORMAL
WING LOADING LBS/SQ.FT.	42.2	44.6	40.6
POWER LOADING ① LBS/BHP.	8.5	9.0	8.2
V-MAX. SEA LEVEL MPH.	317	315	
V-MAX. AIRPLANE. CRIT. ALT. MPH.	387/24600	384/24600	
V-STALL. GROSS WEIGHT. ② MPH.	92.9	95.5	
V-STALL. WITHOUT FUEL ② MPH.	83.8	83.8	
TIME-TO-CLIMB -10000FT.- MIN.	6.3	7.0	
TIME-TO-CLIMB -20000FT.- MIN.	13.4	14.9	
SERVICE CEILING FT.	35400	34500	
TAKE-OFF DISTANCE -CALM- FT.	1209	1385	
TAKE-OFF DISTANCE -15 KN- FT.	836	972	
TAKE-OFF DISTANCE -25 KN- FT.	625	741	
RATE OF CLIMB -SL- FT./MIN.	1640	1490	
MAX. RANGE /V-AV. ③ ST. MI /MPH.	1665/186	2140/186	2220/176
BOMBING RADIUS /V-AV.-20% R- NMI /KN.			
BOMBING RADIUS /V-AV.-33% R- NMI /KN.			
PATROL RADIUS /V-AV.-20% R- NMI /KN.			
PATROL RADIUS /V-AV.-33% R- NMI /KN.			
SCOUT. RADIUS NMI.			
COMBAT RADIUS NMI.	340 *	340 *	

PERFORMANCE IS BASED ON- FLIGHT TEST

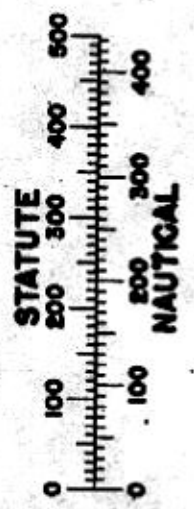
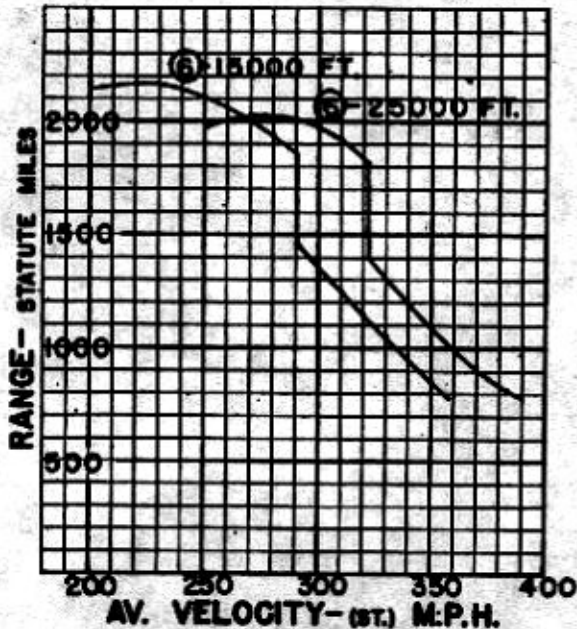
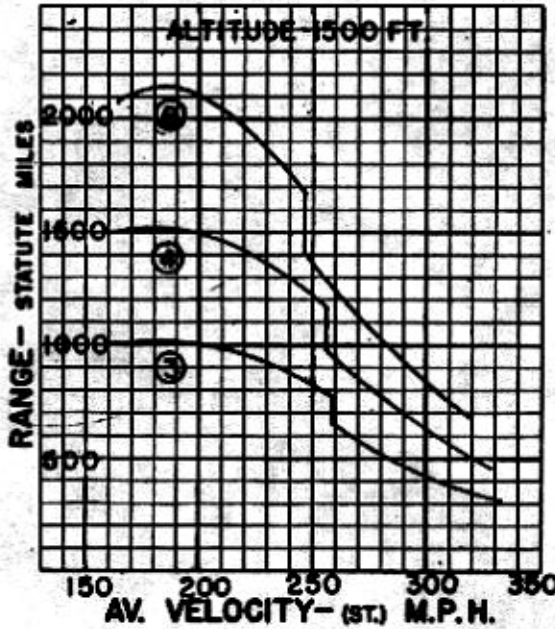
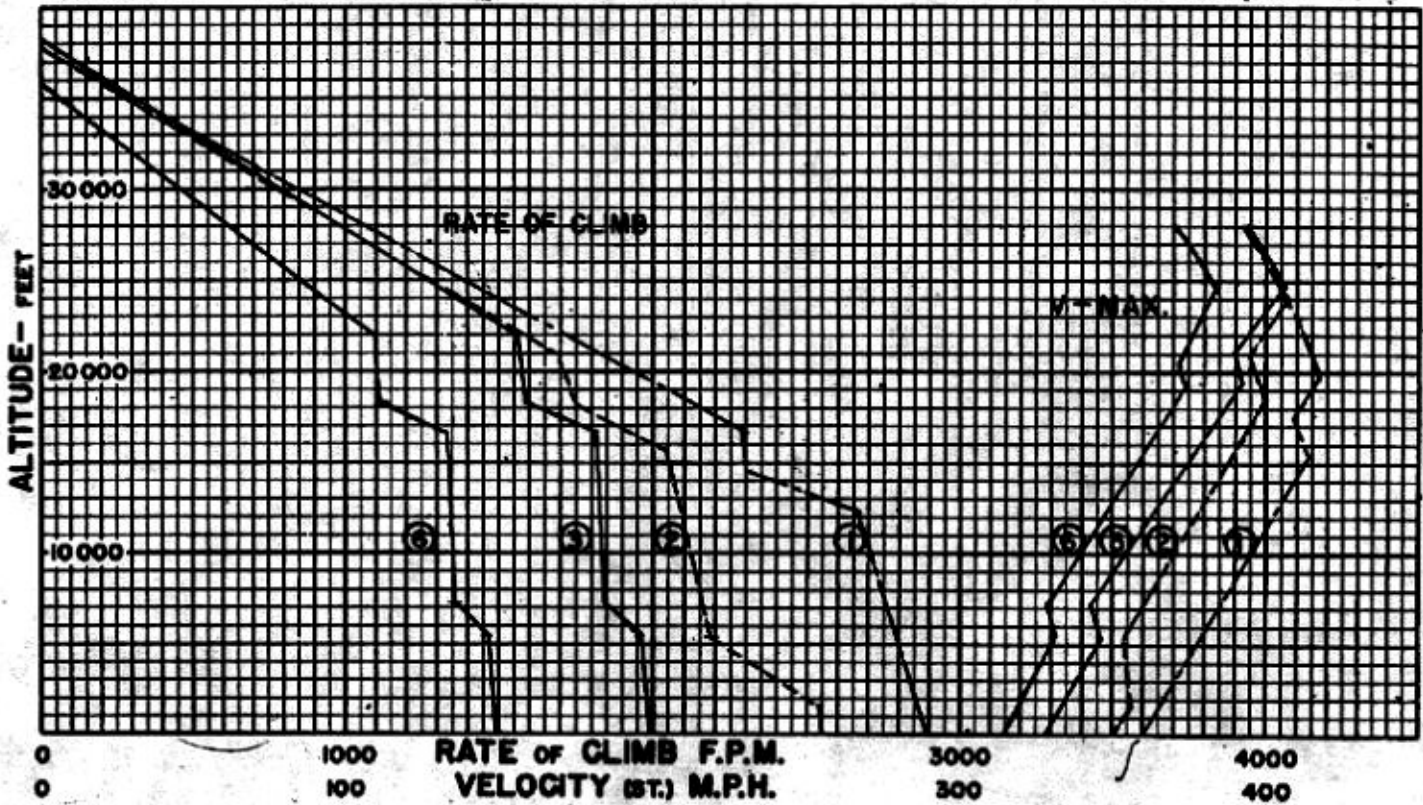
RANGE & RADIUS ARE BASED ON FLIGHT TEST

FUEL CONSUMPTION DATA INCREASED

BY 5 PERCENT TO CONFORM WITH PAST EXPERIENCE.

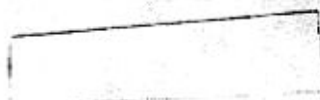
Practical Combat Radius is on 20 min. warm-up and idle; 1 Min. take-off; 10 min. rendezvous at 60% normal sea-level power and auto-rich; climb to 15000 ft. at 60% M.S.P. and auto-lean; cruise-out at 15000' at V for max. range and auto-lean; drop bombs and unprotected droppable tanks; 8.5 min. combat at water injection power plus 11.5 min. combat at full military power; descent; cruise-back at 1500' at V for max. range and auto-lean; 60 min. rendezvous, landing and reserve at V for max. range and auto-lean. Radius includes distance covered in climb but not in descent.

* These combat radii limited by amount of protected fuel available for combat and return - for column 5, 48 gallons fuel remain in tank at the combat radius and must be dropped, used for approx. 54 min. search going out (at V for max. range) or used to increase cruise out speed from 160 to 259 knots; for column 6, 166 gals. must be dropped, used for approx. 186 min. search or increase cruise out speed from 160 knots to V max.



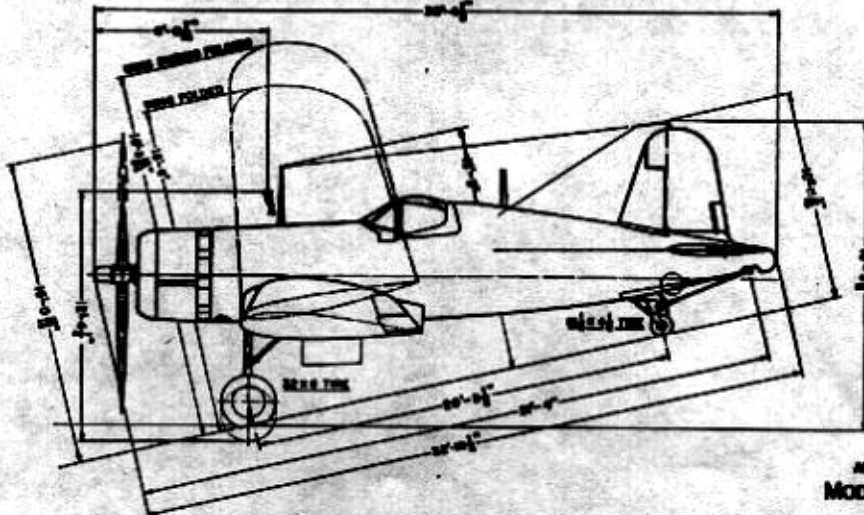
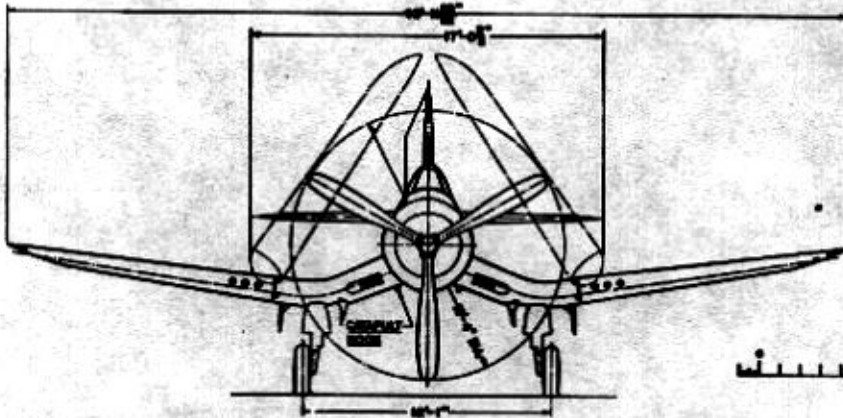
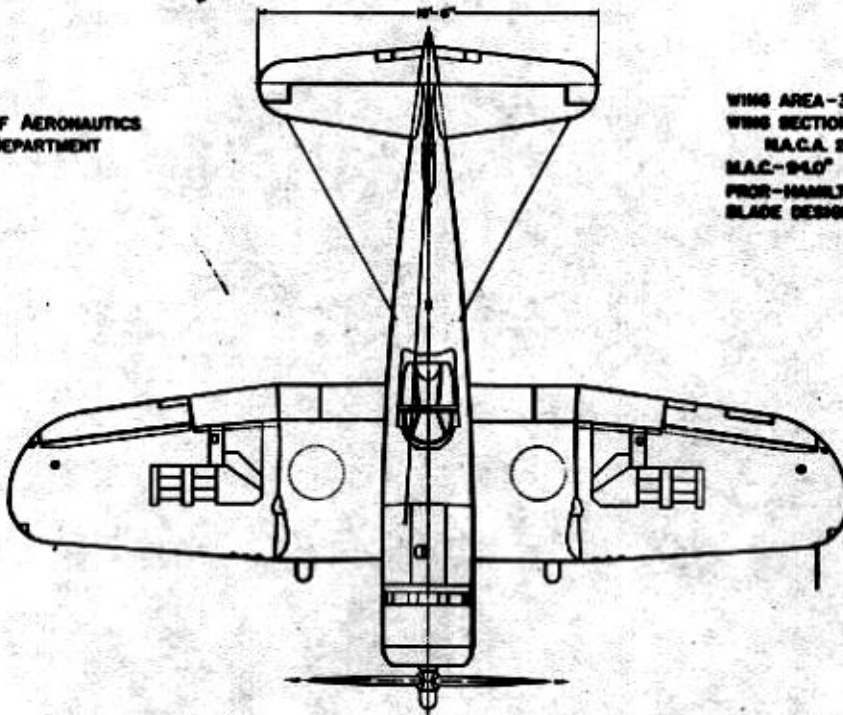
○ LOADING CONDITION COLUMN NUMBER

DECLASSIFIED IN ACCORDANCE WITH E. O. 11652



BUREAU OF AERONAUTICS
NAVY DEPARTMENT

WING AREA-344 SQ. FT.
WING SECTION -
N.A.C.A. 23018-23009
M.A.C.-94.0"
PROP-HAMILTON STD. C.S.
BLADE DESIGN NO. 6443



FG-1
ALSO F3A-1
MODEL-F4U-1, & 1D

PAGE 5
1 MARCH 1944 (EXPOSED 1 AUGUST 1945)

DESCRIPTIVE ARRANGEMENT NUMBER

DECLASSIFIED IN ACCORDANCE WITH E. O. 11652

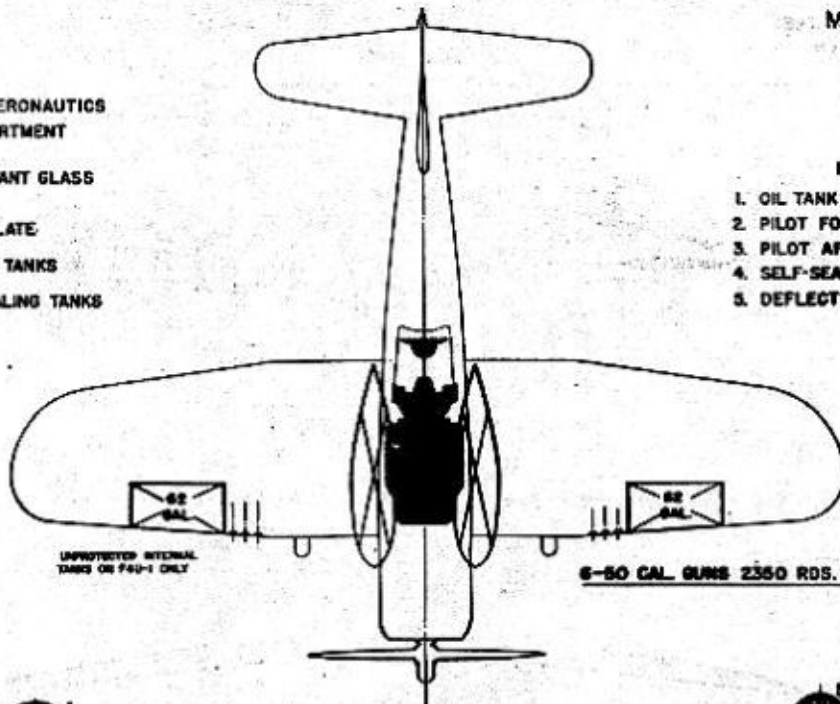
BUREAU OF AERONAUTICS
NAVY DEPARTMENT

-  BULLET RESISTANT GLASS ARMOR PLATE
-  DEFLECTION PLATE
-  SELF-SEALING TANKS
-  NON SELF-SEALING TANKS

MODEL - F4U-1, & 1D
ALSO F3A-1
FG-1

PROTECTION

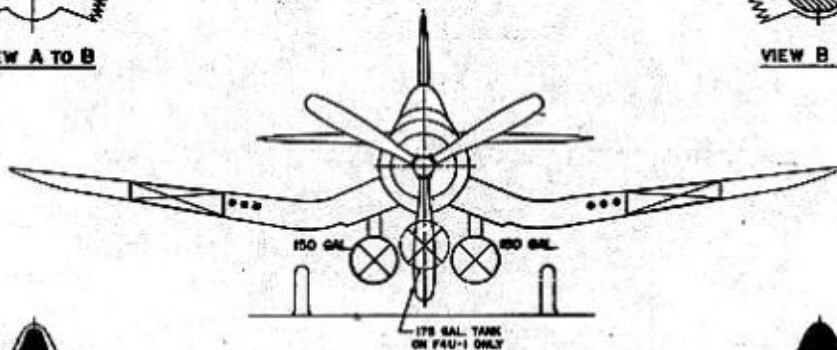
1. OIL TANK (F4U-1 ONLY) 32 LBS.
2. PILOT FORWARD 40 LBS.
3. PILOT AFT 53 LBS.
4. SELF-SEALING CELLS 177 LBS.
5. DEFLECTION PLATE 25 LBS.



VIEW A TO B



VIEW B TO C



0-31



VIEW C TO D



VIEW D

