

AIRPLANE CHARACTERISTICS & PERFORMANCE

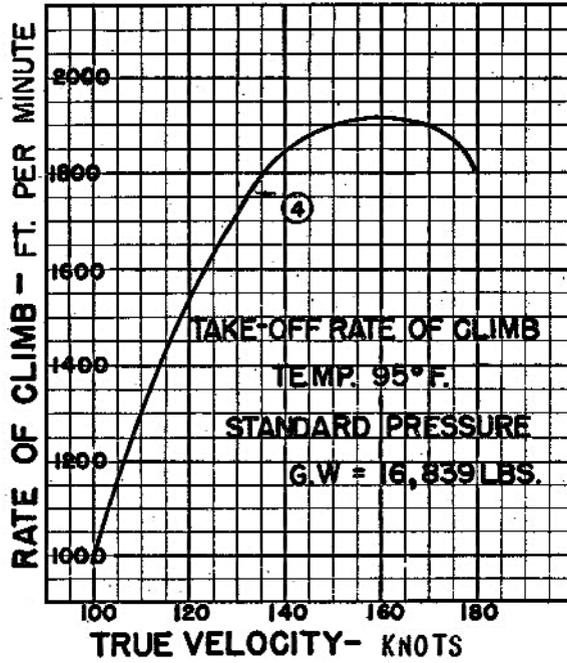
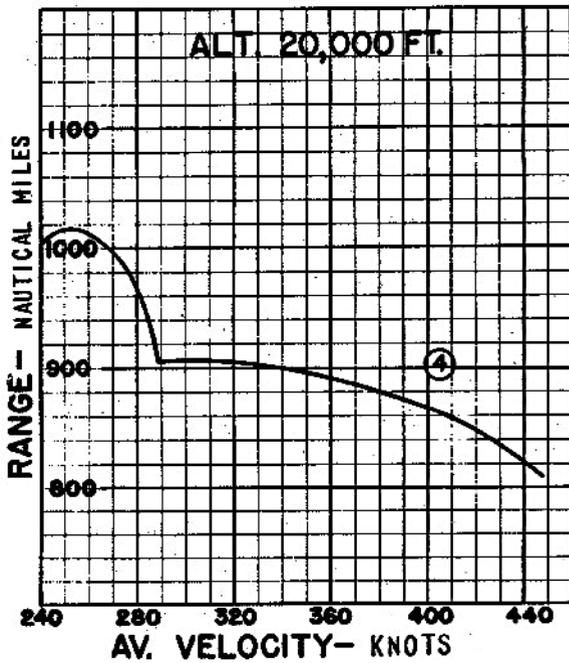
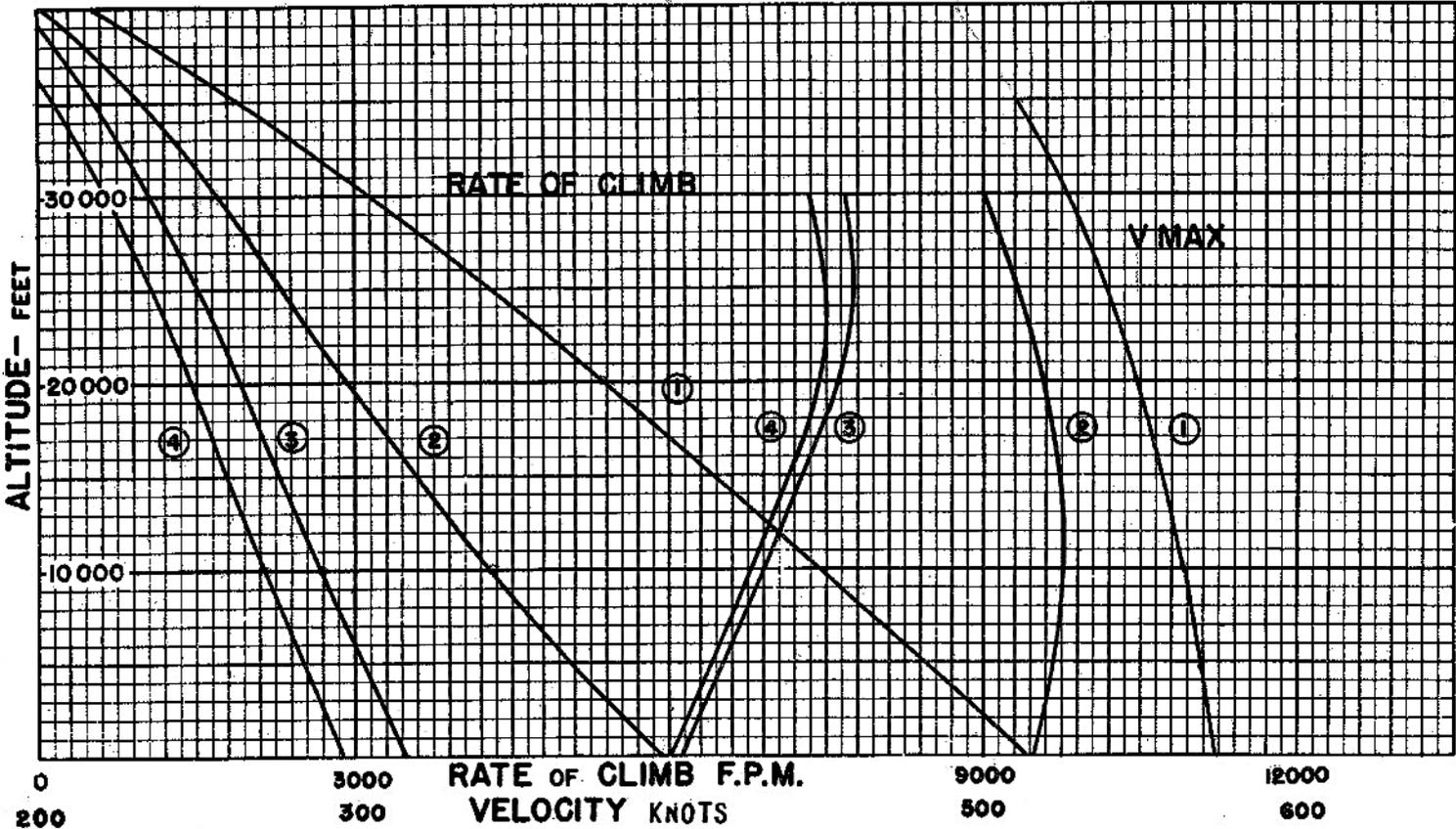
BUREAU OF AERONAUTICS, NAVY DEPT.

COLUMN NUMBER		1	2	3	4
LOADING CONDITION		COMBAT	COMBAT	COMBAT	FIGHTER
GROSS WEIGHT	LBS.	14505	14505	14505	16839
EMPTY WEIGHT (ESTIMATED)	LBS.	9565			
FUEL/OIL	GALS.	582/10	582/10	582/10	971/10
FIXED GUNS/AMMUNITION (Mk. 7 Aircraft Fire Control System) 4-20 MM/1000 Rds.--					
FLEXIBLE GUNS/AMMUNITION None					
ENGINE POWER USED FOR PERFORMANCE		COMBAT	MILITARY	NORMAL	NORMAL
WING LOADING	LBS./SQ.FT.	29.3	29.3	29.3	34.0
POWER LOADING ①	LBS./BHP.				
V-MAX. SEA LEVEL	KN	574	517	404	400
V-MAX. / 20000'	KN/	548	518	454	447
V-STALL GROSS WEIGHT ②	KN	84.7	84.7	84.7	91.2
V-STALL WITHOUT FUEL ②	KN	73.8	73.8	73.8	73.8
TIME-TO-CLIMB -10000FT-	MIN.	1.2	2.0	3.2	4.0
TIME-TO-CLIMB -20000FT-	MIN.	2.8	4.8	7.6	9.6
SERVICE CEILING	FT.	41400	39800	38500	35600
TAKE-OFF DISTANCE -CALM-	FT.	1222	1222	1222	1741
TAKE-OFF DISTANCE -15 KN-	FT.	869	869	869	1271
TAKE-OFF DISTANCE -25 KN-	FT.	666	666	666	998
TAKE-OFF DISTANCE -50 FT. OBST.	FT.				
TAKE-OFF R/C	FT./MIN				990
RATE OF CLIMB -SL-	FT./MIN.	9400	5950	3530	2900
MAX. RANGE / V-AV. ③	NMI./KN				1015/260
RANGE / V-AV. -60%NSP-③-	NMI./KN				
SEARCH RADIUS / V-AV. -20%R-	NMI./KN.				
A.S.W. RADIUS / V-AV. -20%R-	NMI./KN.				
SCOUT RADIUS	N MI.				
COMBAT RADIUS (F-3 Mod)	N MI.				290
ENGINE / 2 Westinghouse 24c Turbo-Jet Engines					
ENGINE RATING BHP/RPM/ALT.	COMBAT (With Afterburning)		MILITARY		NORMAL
	3700# Static/12000 RPM/SL		3000# Static Thrust/12000/SL		2430# Static Thrust/ 11000/SL
	(MILITARY and NORMAL ratings are from Westinghouse Engine Spec. A-16.)				
	(COMBAT rating (with afterburning) determined from calculations.)				
FIXED AUX.	TANKAGE IN GALLONS		OIL	FUEL	ARMAMENT
	PROTECTED		10	971	None
	UNPROTECTED				
	TOTAL-FIXED INTERNAL			971	
	DROPPABLE				
DROPPABLE					
TOTAL		10	971		Performance is based on calculations. Range and radius are based on engine specification fuel consumption data increased by 7.5% to conform with past experience.
NOTE	① BHP AT MAX. CRIT. ALT.				
	② STALL-WITHOUT POWER				
	③ AT 20000' ALTITUDE (Single engine operation at reduced gross weight.)				

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FIXED	PROTECTED	10	971	None	
	UNPROTECTED				
	TOTAL-FIXED INTERNAL		971		
	DROPPABLE				
	DROPPABLE				
AUX.	TOTAL	10	971	Performance is based on calculations. Range and radius are based on engine specification fuel consumption data increased by 7.5% to conform with past experience.	
NOTE	① BHP AT MAX. CRIT. ALT.				
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○ LOADING CONDITION COLUMN NUMBER

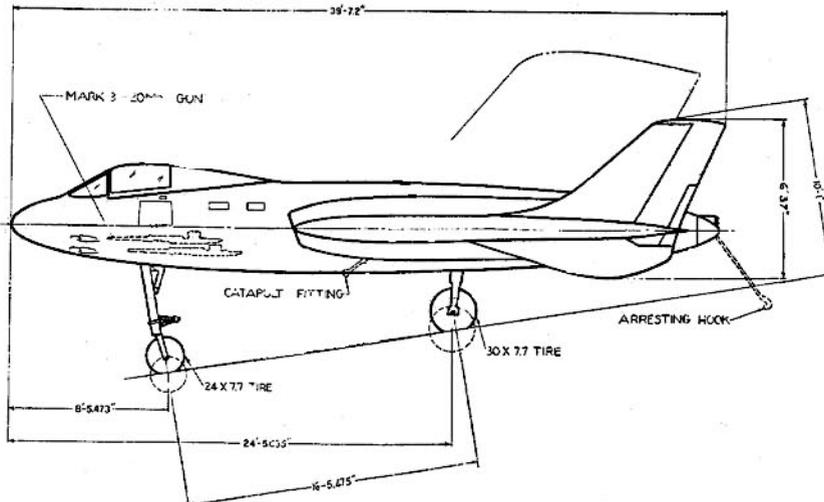
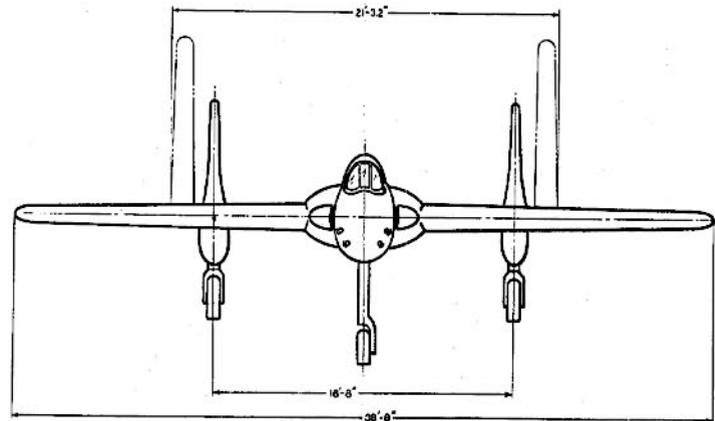
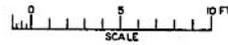
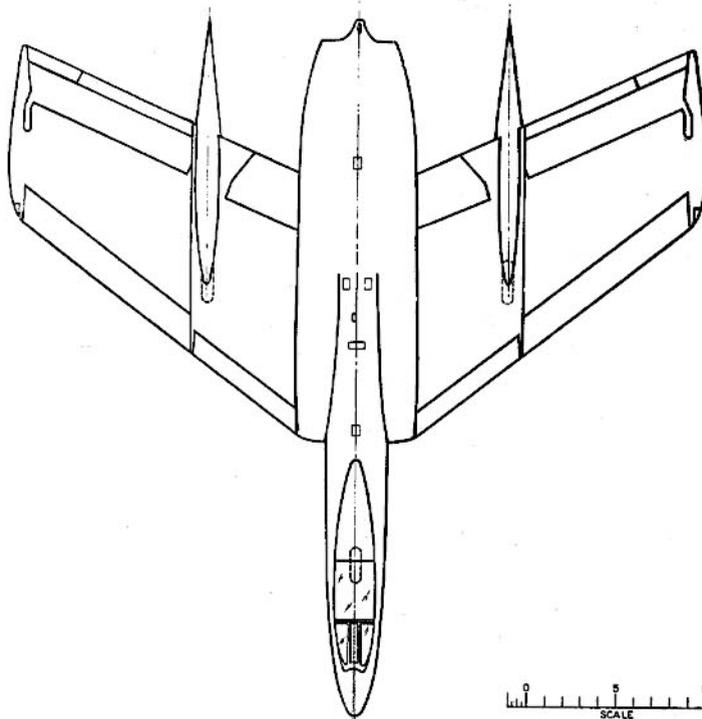
AIRPLANE CHARACTERISTICS & PERFORMANCE

BUREAU OF AERONAUTICS, NAVY DEPT.

The XF7U-1 airplane is a single place, twin turbo jet engine propelled, carrier based, high performance fighter. It has tricycle landing gear, catapult provisions and folding wings.

Span	38'-8"
Span (folded)	21'-3.2"
Length (level)	37'-4.25"
Height (3 pt.)	9'-9.5"
Wing area	496 sq. ft.
M.A.C.	157"
Airfoil section	CVA4-(00)-(12)(40)-(1.1)(1.0)

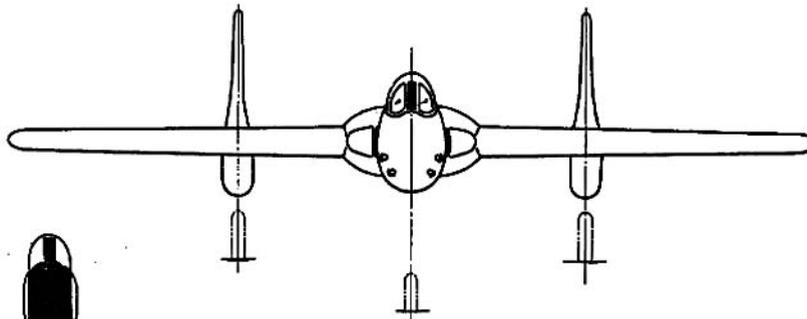
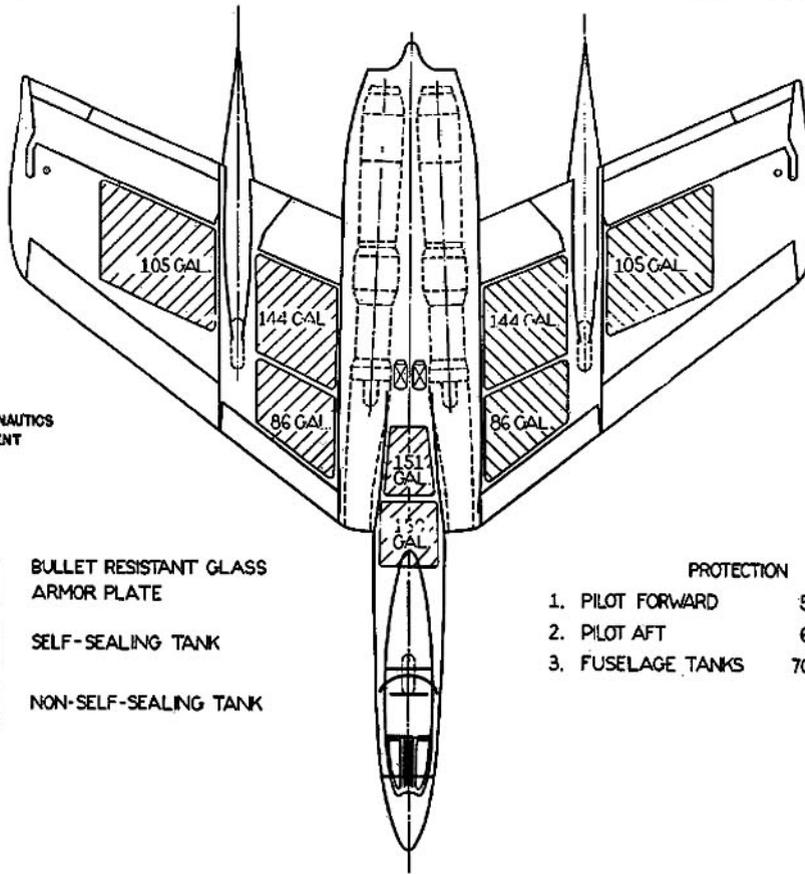
WING AREA - 456 SQ. FT.
WING SECTION - C.V.A. SPECIAL
4'-00"-02" (40'-0.0'-00")
PERPENDICULAR TO 1/4 CHORD LINE
MEAN GEOMETRIC CHORD - 137"



BUREAU OF AERONAUTICS
NAVY DEPARTMENT

-  BULLET RESISTANT GLASS
ARMOR PLATE
-  SELF-SEALING TANK
-  NON-SELF-SEALING TANK

- PROTECTION
1. PILOT FORWARD 59.0 LBS.
 2. PILOT AFT 61.0 LBS.
 3. FUSELAGE TANKS 702.50 LBS.



VIEW A



VIEW B TO A

