

ISSUE OF PAGES  
**AIRPLANE CHARACTERISTICS & PERFORMANCE** BUREAU OF AERONAUTICS, NAVY DEPT.

COLUMN NUMBER		1	2	3	4
LOADING CONDITION		SEARCH	SEARCH	SEARCH 1-150 GAL TANK EXT.	SEARCH 2-150 GAL TANK EXT.
GROSS WEIGHT	LBS.	19175	19175	20280	21352
EMPTY WEIGHT (SPECIFICATION)	LBS.	15035			
FUEL/OIL	GALS.	420/23	420/23	570/32	720/36
FIXED GUNS/AMMUNITION		None			
FLEXIBLE GUNS/AMMUNITION		None			
ENGINE POWER USED FOR PERFORMANCE		MILITARY	NORMAL	NORMAL	NORMAL
WING LOADING	LBS./SQ.FT.	34.9	34.9	36.9	38.9
POWER LOADING ①	LBS./BHP.	8.3	10.6	11.3	11.9
V-MAX. SEA LEVEL	KN	236	215	209	204
V-MAX./CRITICAL ALT.	KN./FT.	241/2100	232/7900	225/7800	219/7800
V-STALL GROSS WEIGHT ②	KN	70.0	70.0	72.8	75.7
V-STALL WITHOUT FUEL ②	KN	65.2	65.2	66.4	67.6
TIME-TO-CLIMB -10000FT-	MIN.	5.9	6.5	7.1	7.8
TIME-TO-CLIMB -20000FT-	MIN.	21.4	22.5	28.3	
SERVICE CEILING	FT.	21900	21700	20400	19200
TAKE-OFF DISTANCE -CALM-	FT.	706	706	837	987
TAKE-OFF DISTANCE -15 KN-	FT.	441	441	534	642
TAKE-OFF DISTANCE -25 KN-	FT.	297	297	368	455
TAKE-OFF DISTANCE -50 FT. OBST.	FT.				
TAKE-OFF TIME	SECONDS				
RATE OF CLIMB -SL-	FT./MIN.				
MAX. RANGE / V-AV. ③	N MI./KN.		1070/135	1370/131	
RANGE / V-AV. -60%NSP-③-	N MI./KN.				
SEARCH RADIUS / V-AV. -20%R-	NMI./KN.				
A.S.W. RADIUS / V-AV. -20%R-	NMI./KN.		270 /150	341/150	400/150.
SCOUT RADIUS	N MI.				
COMBAT RADIUS	N MI.				

ENGINE /PROP GEAR RATIO R2800-46W/.45

ENGINE RATING BHP/RPM/ALT.	MILITARY	NORMAL	T. O.
		2300/2800/S.L.-600	1800/2600/S.L.-6500

TANKAGE IN GALLONS		OIL	FUEL	Performance is based on calculations. Range and radius are based on engine specification fuel consumption data increased by 15 per cent to conform with past experience.
AUX. FIXED	PROTECTED		420	
	UNPROTECTED	36		
	TOTAL-FIXED INTERNAL			
	DROPPABLE WINGS 2@150		300	
	DROPPABLE			
TOTAL		36	720	
NOTE	① BHP AT MAX. CRIT. ALT.			
	② STALL - WITHOUT POWER			
	③ AT 1500' ALTITUDE			

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DECLASSIFIED IN ACCORDANCE WITH E. O. 11652

PRELIMINARY

DATE 15 APRIL 1947

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MODEL XTB3F-IS

## AIRPLANE CHARACTERISTICS &amp; PERFORMANCE

BUREAU OF AERONAUTICS, NAVY DEPT.

Search Condition: AN/APS-20A Radome, 2-MK9 wing bomb racks, 24-AN/CRB-1B Sonobouys, 24-MK5 float lights and 2-MK6-2 aircraft float lights are aboard.

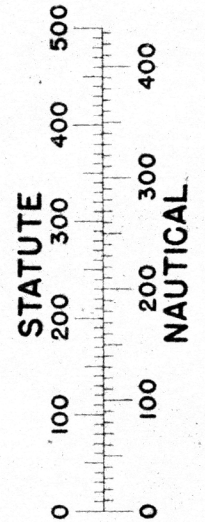
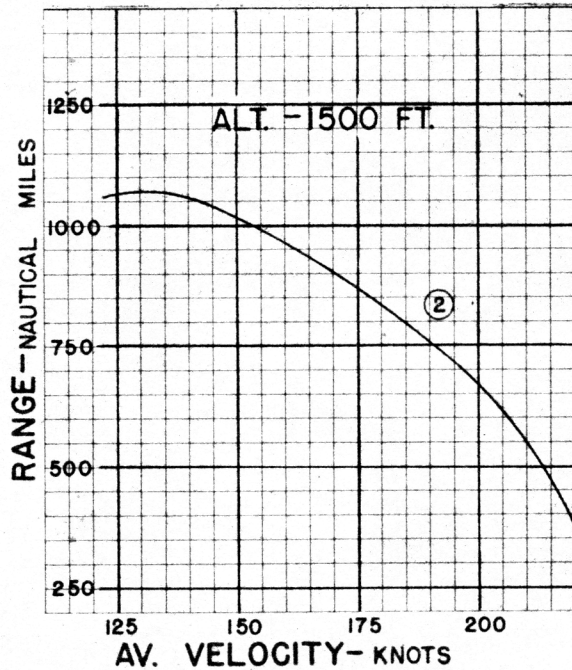
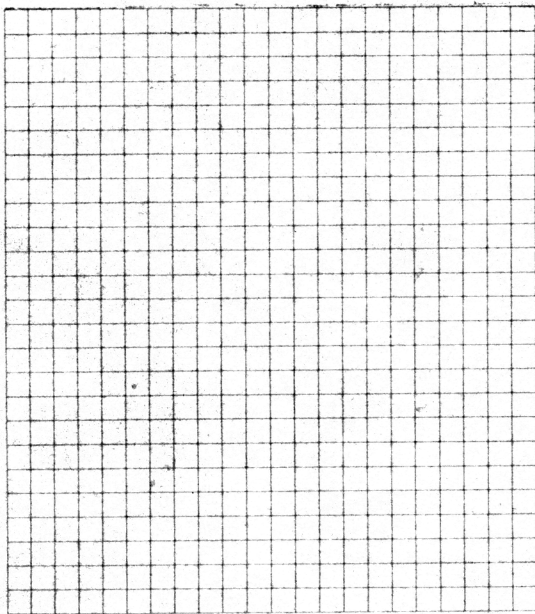
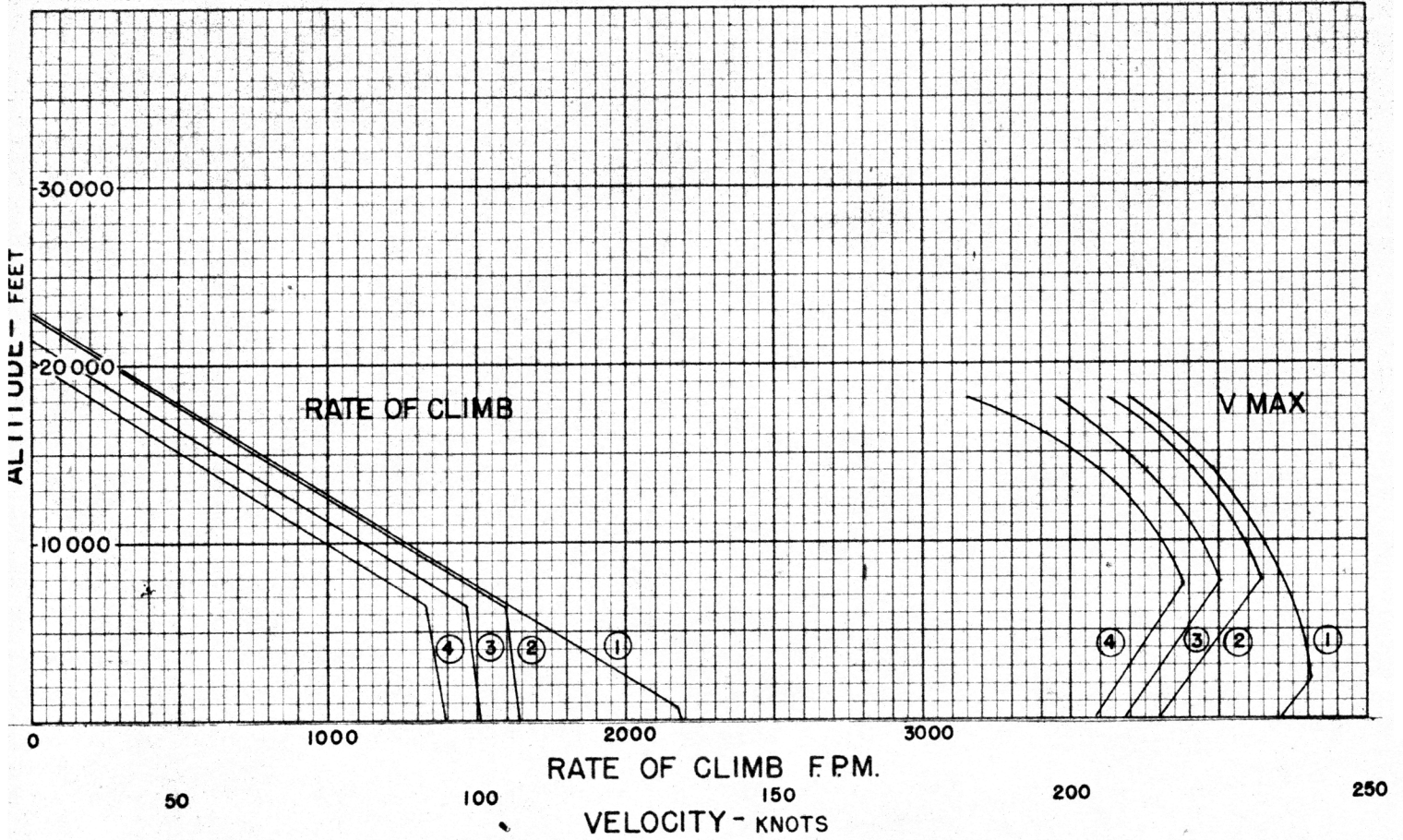
A.S.W. Radius Formula No. PA-1 (Mod.) Cond. Nos. 1, 2, 3, 4.

Radius is 1/3 range at 150 kn. at 1500 ft. altitude. Allowance of 20% of initial fuel load for warm-up, take-off, climb and reserve is carried entire distance, Sonobouys, float lights, and tanks are carried entire distance.

C H A R A C T E R I S T I C S

Span.....60'-0"  
 Span folded.....24'-2"  
 Height-3 pt.....14'-3"  
 Length-3 pt.....42'-11"  
 Wing Area.....549 sq. ft.  
 Airfoil Section.....NACA 23018-23012  
 Propeller.....H.S.-C.S.-13'-2"/4 bl.  
 Design 6557A-6

PRELIMINARY



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