

**AIRPLANE CHARACTERISTICS & PERFORMANCE**

BUREAU OF AERONAUTICS, NAVY DEPT.

COLUMN NUMBER		1	2		
LOADING CONDITION		TOW TARGET STOWED	TOW TARGET TRAILING		
GROSS WEIGHT	LBS.	31614	31614		
EMPTY WEIGHT (ACTUAL)	LBS.	19530			
FUEL/OIL	GALS.	925/60	925/60		
FIXED GUNS/AMMUNITION		NONE			
FLEXIBLE GUNS/AMMUNITION		NONE			
ENGINE POWER USED FOR PERFORMANCE		NORMAL	NORMAL		
WING LOADING	LBS./SQ.FT.	58.6	58.6		
POWER LOADING ①	LBS./BHP.	10.9	10.9		
V-MAX. SEA LEVEL	KN.	264	240		
V-MAX.	KN./FT.	287/13200	255/12400		
V-STALL GROSS WEIGHT ②	KN.	93.1	93.1		
V-STALL. WITHOUT FUEL ②	KN.	84.5	84.5		
TIME-TO-CLIMB -10000 FT.-	MIN.	6.0	7.1		
TIME-TO-CLIMB -20000 FT.-	MIN.	16.1	21.6		
SERVICE CEILING	FT.	27000	23900		
TAKE-OFF DISTANCE -CALM-	FT.	1378			
TAKE-OFF DISTANCE -15 KN-	FT.	995			
TAKE-OFF DISTANCE -25 KN-	FT.	772			
TAKE-OFF DISTANCE -50 FT. OBST.	FT.				
TAKE-OFF TIME	SECONDS				
RATE OF CLIMB -SL-	FT./MIN.	1860	1640		
MAX. RANGE / V-AV. ③	N MI./KN.	1845/150	1460/145		
RANGE / V-AV. -60% NSP-③-	N MI./KN.				
SEARCH RADIUS / V-AV. -20% R-	N MI./KN.				
A.S.W. RADIUS / V-AV. -20% R-	N MI./KN.				
TIME ON STATION	HRS.		3.0		
COMBAT RADIUS	N MI.				
ENGINE / PROP GEAR RATIO 2 P & W R-280J-71 / 2:1					
ENGINE RATING BHP/RPM/ALT.	MILITARY	NORMAL		TAKE-OFF	
	2000/2700/3L-1500'	1600/2400/3L-5700'		2000/2700/3.L.	
	1600/2700/13500'	1450/2400/8300'-13000'			
TANKAGE IN GALLONS		OIL	FUEL	OFFENSIVE ARMAMENT	
AUX. FIXED	PROTECTED			NONE	
	UNPROTECTED	60	925	In "Trailing" configuration, tow target is carried	
	TOTAL - FIXED INTERNAL	60	925	at the end of a 12000 ft. - 1/8" cable.	
	DROPPABLE			Tow Target MK 23 Mod. 0 is used.	
TOTAL		60	925		
NOTE	① BHP AT MAX. CRIT. ALT.				
	② STALL - WITH POWER				
	③ AT 1500' ALTITUDE				

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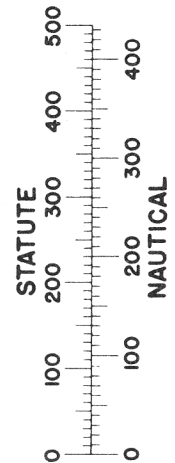
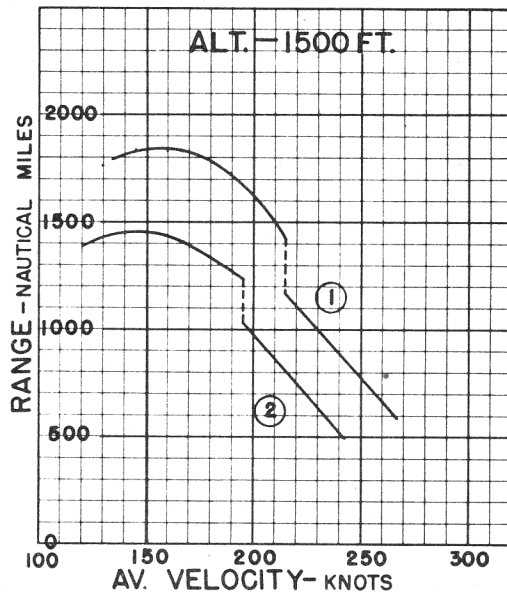
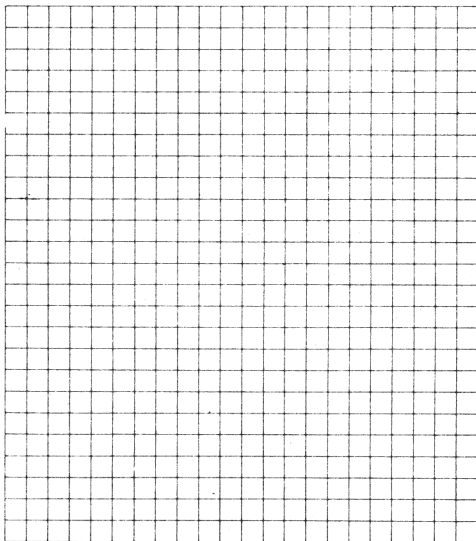
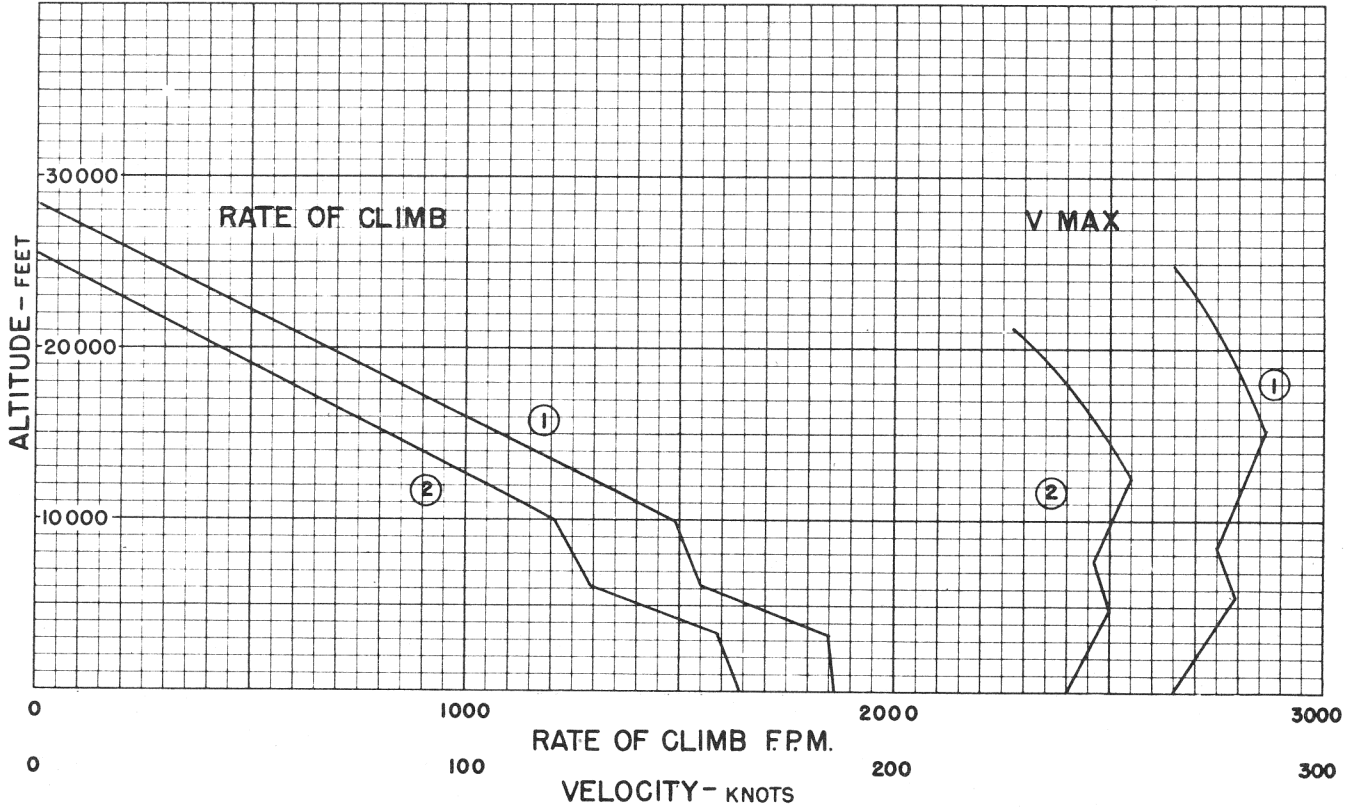
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Performance is based on flight test. Range and radius are based on flight test, fuel consumption data increased 5% to conform with past experience.

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Time on station is based on a radius of 100 nautical miles at 1500 ft. altitude, at speed for maximum range. Fuel allowances are: 20 min./5 rated RPM, for start and warm-up: 1 min./rated T.O. power, for take-off: one hour/max. range speed, for reserve. Time on station is at continuous utility power.

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Time on station is reduced 2.6 minutes for each 10 nautical miles of radius beyond 100 nautical miles.

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All performance calculated with de-icer boots on wing and tail.  
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○ LOADING CONDITION COLUMN NUMBER

BUREAU OF AERONAUTICS  
NAVY DEPARTMENT

WING AREA 540.0 SQ. FT.  
WING SECTION  
N.A.C.A. 65, 2-215  
M. A.C. 97.53 IN.  
PROP. - HAMILTON STD. HYDROMATIC  
BLADE DESIGN NO. 6359A-18

