

COLUMN NUMBER		1	2	3	4
LOADING CONDITION		PATROL	PATROL	BOMBER 12-100#	BOMBER 6-500#
GROSS WEIGHT LBS.		215 gallon B.B. Tank	215 gallon B.B. Tank	215 gallon B.B. Tank	
EMPTY WEIGHT - Actual - LBS.		33728	33728	35990	35106
FUEL/OIL GALS.		20216			
FIXED GUNS/AMMUNITION		1189/66	1189/66	1189/66	974/55
FLEXIBLE GUNS/AMMUNITION		1-75mm-21 rds.; 8-.50 cal./3200 rds, 6 - .50 cal./2600 rds			
ENGINE POWER USED FOR PERFORMANCE		MILITARY	NORMAL	NORMAL	NORMAL
WING LOADING LBS./SQ.FT.		55.3	55.3	57.4	57.5
POWER LOADING ① LBS./BHP.		11.8	12.5	13.0	13.0
V-MAX SEA LEVEL MPH.		265	253	251	251
V-MAX AIRPLANE CRIT. ALT. MPH.		275/12700	273/14500	270/14500	270/14500
V-STALL GROSS WEIGHT ② MPH.			91.1	92.8	93.0
V-STALL WITHOUT FUEL ② MPH.			70.8	82.8	84.9
TIME-TO-CLIMB -10000FT- MIN.		11.2	11.8	13.1	13.2
TIME-TO-CLIMB -20000FT- MIN.			19.0		
SERVICE CEILING FT.		17100	20600	19900	19800
TAKE-OFF DISTANCE -CALM- FT.			1358	1478	1496
TAKE-OFF DISTANCE -15 KN- FT.			958	1050	1064
TAKE-OFF DISTANCE -25 KN- FT.			722	802	818
TAKE-OFF TIME SECONDS					
RATE OF CLIMB -SL- FT./MIN.		1170	940	860	850
MAX RANGE/V-AV. ③ STMI/MPH.			2030/159	1950/162	1860/164
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.					
SEARCH RADIUS -20%R NMI/KN.			570/137	550/139	440/141
COMBAT RADIUS N MI.					
ENGINE / PROP. GEAR RATIO		2 W.A.C. R-2600-13 or -29/16 to 9			
ENGINE RATING BHP/RPM/ALT.	MILITARY	NORMAL		TAKE-OFF	
	1700/2600/SL-3000	1500/2400/SL-5800		1700/2600	
	1450/2600/7300-12000	1350/2400/8900-13000			
TANKAGE IN GALLONS		OIL	FUEL	OFFENSIVE ARMAMENT	
AUX. FIXED	PROTECTED	76	974	FUSELAGE BOMB-BAY: (Internal)	
	UNPROTECTED			Bombs: 1-2000# 2-1600#	
	TOTAL - FIXED INTERNAL	76	974	2-1000# G.P. 6-500#	
	DROPPABLE Bomb Bay *		335	2-1000# 4-250#	
	DROPPABLE Non-Self Sealing		585	2-850# 4-1000# A.P.	
	Bomb Bay Self Sealing (fixed)		215	Bombs With one 215 gal. B.B. tank*	
TOTAL	76	1559	2-1000#	2-1600#	
NOTE	STATUTE MILES USED-EXCEPT-RADIUS IS GIVEN IN NAUTICAL MILES & KNOTS		4-500#	2-650#	
	① BHP AT MAX. CRIT. ALT.		4-325#	12-100#	
	② STALL-WITH POWER		Torpedo (External with BB doors open) 1-NK 13-2		
	③ AT 1500' ALTITUDE				

* See page 2

Practical search radius is 40% of range at V for maximum range at 1500 ft. with 20% of initial fuel load as allowance for warm-up, take-off, climb, and reserve. Bombs, torpedoes, radar and all droppable tanks are carried the entire distance. The radius is reduced 11 nautical miles for each minute of combat at 1500 ft. at military rated power.

Engine ratings are AEL ratings. These do not conform with the engine data obtained in PBJ-1D flight tests. Flight test engine data are used in the performance calculations.

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

Range for Ferry Condition:

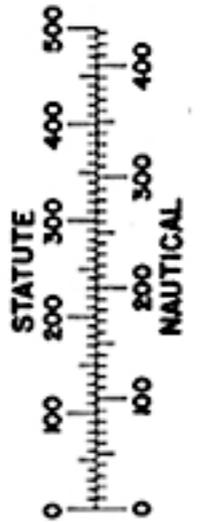
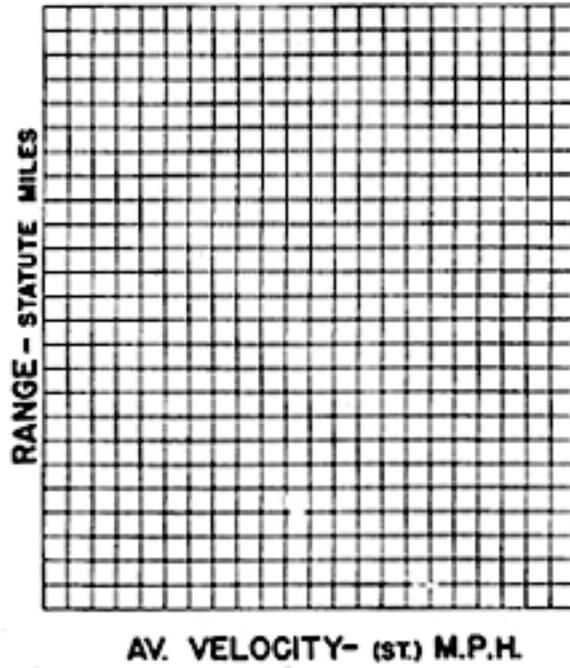
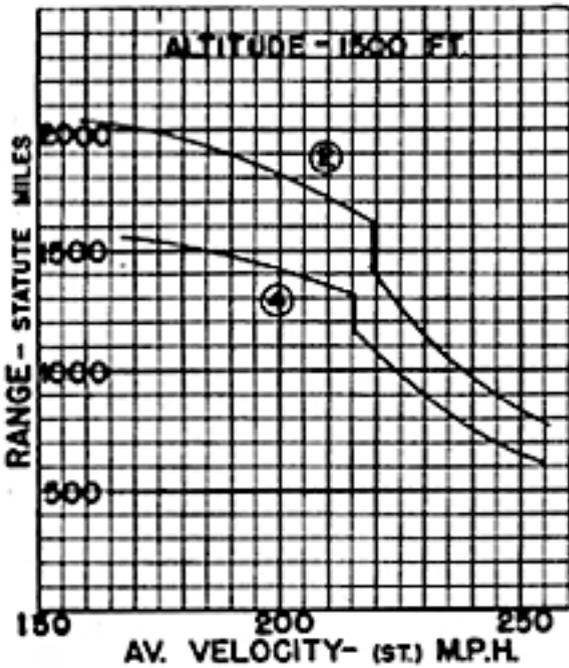
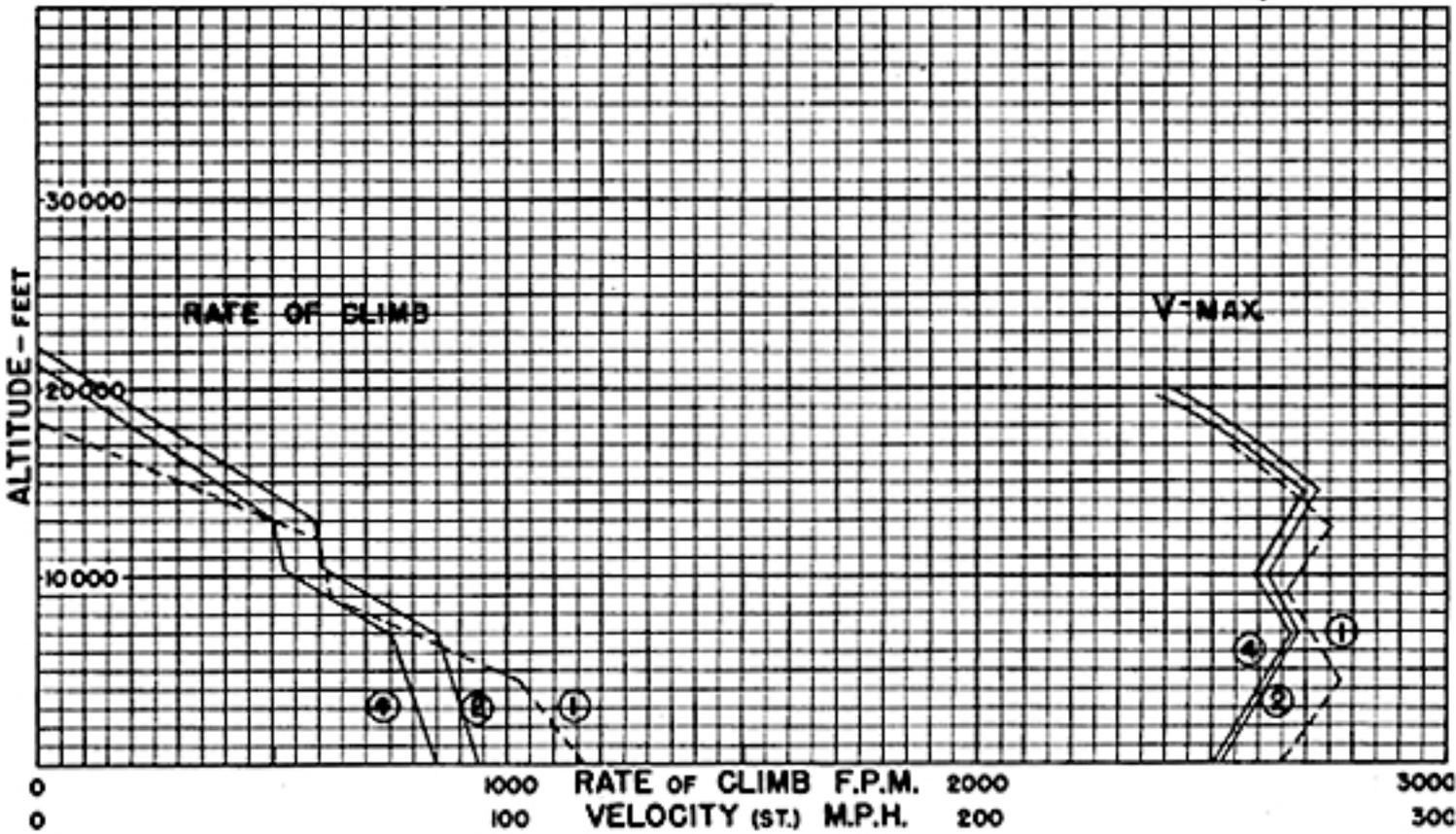
Gross Weight -	311021bs.
Fuel/Oil -	1569/76
Max. Range/Y-av. (1500') -	2850mi./152 mph

*The following combinations of bombs and/or tanks are possible in the fuselage bomb-bay

1. One 585 gal. unprot. droppable tank and no bombs
2. One 335 gal. unprot. droppable tank and no bombs
3. One 335 gal. unprot. droppable tank and one 215 gal. protected (not droppable) tank.
4. One 215 gal. protected (not droppable) tank and the bombs listed on page 1.

AIRPLANE CHARACTERISTICS & PERFORMANCE

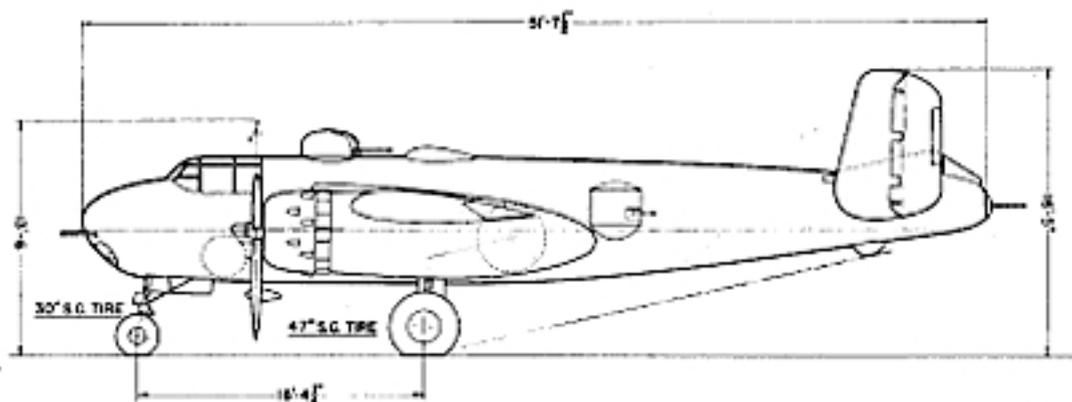
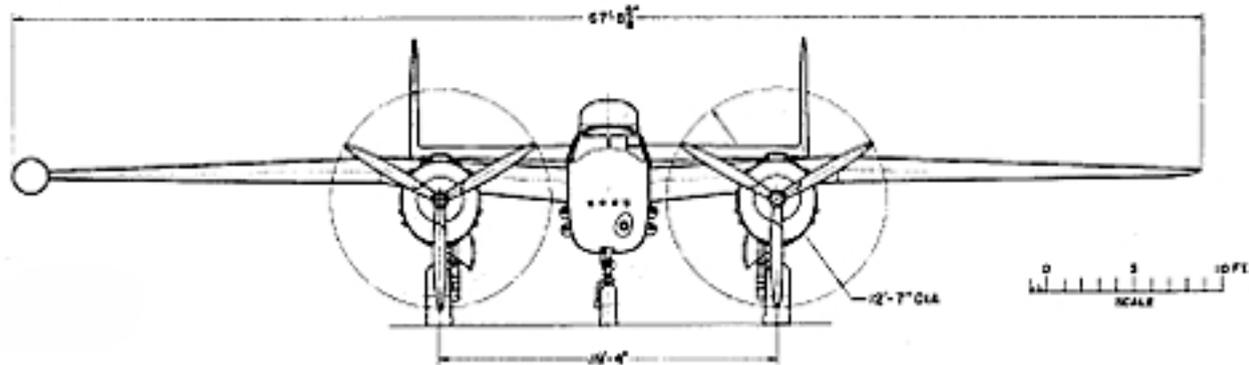
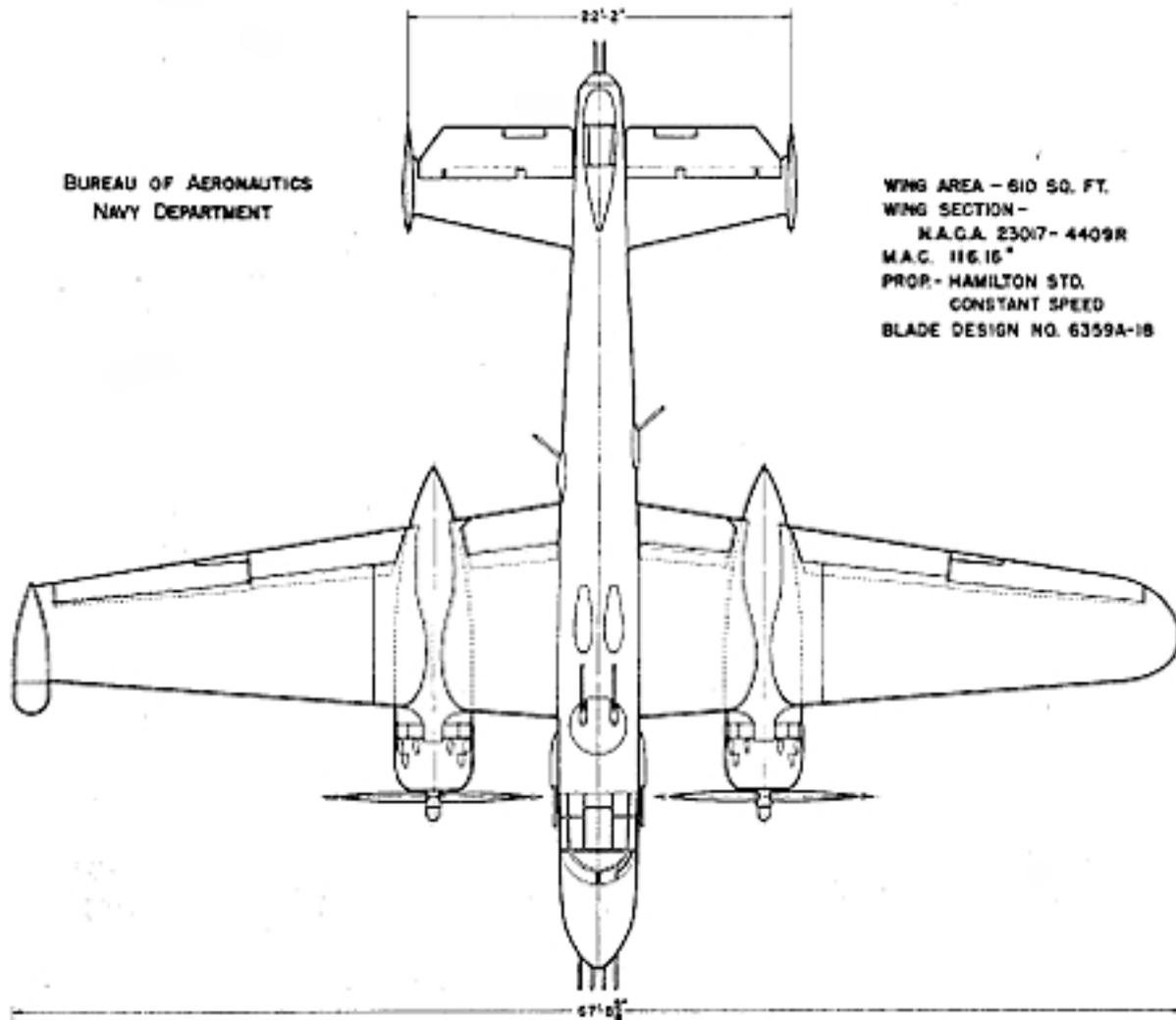
BUREAU OF AERONAUTICS, NAVY DEPT.



○ LOADING CONDITION COLUMN NUMBER

BUREAU OF AERONAUTICS
NAVY DEPARTMENT

WING AREA - 610 SQ. FT.
WING SECTION -
N.A.C.A. 23017-4409R
M.A.C. 116.16"
PROP. - HAMILTON STD.
CONSTANT SPEED
BLADE DESIGN NO. 6359A-1B



MODEL PBJ-1H

BUREAU OF AERONAUTICS
NAVY DEPARTMENT

-  ARMOR PLATE
-  DEFLECTION PLATE
-  SELF-SEALING TANKS
-  NON SELF-SEALING TANKS

- | | |
|-----------------------|-----------|
| 1. PILOT FORWARD | 294 LBS. |
| 2. PILOT AFT | 85 LBS. |
| 3. CANNONEER | 196 LBS. |
| 4. TURRET | 24 LBS. |
| 5. SIDE WAIST | 72 LBS. |
| 6. TAIL TURRET | 174 LBS. |
| 7. SELF-SEALING CELLS | 1321 LBS. |

