

AIRPLANE CHARACTERISTICS & PERFORMANCE

BUREAU OF AERONAUTICS, NAVY DEPT.

COLUMN NUMBER		1	2	3	4
LOADING CONDITION		PATROL 8-MK 43 D.B. 2-MK 34 TORP.	PATROL 8-MK 43 D.B. 2-MK 34 TORP.	PATROL 8-MK 43 D.B. 2-MK 34 TORP.	PATROL 8-MK 43 D.B. 2-MK 34 TORP.
GROSS WEIGHT	LBS	120000	120000	130000	130000
EMPTY WEIGHT (ESTIMATED)	LBS	75513 (see note)			
FUEL/OIL	/GALS.	5164/340	5164/340	6830/340	6830/340
FIXED GUNS/AMMUNITION		NONE			
FLEXIBLE GUNS/AMMUNITION		12-.50 Cal./9000 rds. total (See note)			
ENGINE POWER USED FOR PERFORMANCE		MILITARY	NORMAL	MILITARY	NORMAL
WING LOADING	LBS/SQ.FT.	69.0	69.0	74.7	74.7
POWER LOADING ①	LBS/BHP	13.6	15.0	14.7	16.3
V-MAX. SEA LEVEL	KN	230	222	227	219
V-MAX./CRITICAL ALT.	KN/FT.	294/33000	265/28500	285/30000	258/24000
V-STALL GROSS WEIGHT ②	KN	95.6	95.6	100.0	100.0
V-STALL WITHOUT FUEL ②	KN	81.9	81.9	81.9	81.9
TIME-TO-CLIMB -10000FT-	MIN.	13.1	15.4	15.1	19.2
TIME-TO-CLIMB -20000FT-	MIN.	30.9	37.7	36.5	51.5
SERVICE CEILING	FT.	33300	28700	30100	24100
TAKE-OFF DISTANCE -CALM-	FT.	3445	3445	4250	4250
TAKE-OFF DISTANCE -15 KN-	FT.	2515	2515	3145	3145
TAKE-OFF DISTANCE -25 KN-	FT.	1965	1965	2490	2490
TAKE-OFF DISTANCE -50 FT. OBST.	FT.	5050	5050	6250	6250
TAKE-OFF TIME	SECONDS				
RATE OF CLIMB -SL-	FT./MIN.	880	745	760	620
MAX. RANGE / V-AV. ③	N MI./KN.		3000/160		3790/160
RANGE / V-AV -60%NSP-③-	N MI./KN.				
SEARCH RADIUS / V-AV -20%R-(P-1)	N MI./KN.		960/160		1220/160
A.S.W. RADIUS / V-AV -20%R-(PA-1)	N MI./KN.		720/160		910/160
SCOUT RADIUS	N MI.				
COMBAT RADIUS	N MI.				
ENGINE / PROP GEAR RATIO		R-3350-57 / .35:1			
ENGINE RATING BHP/RPM/ALT.	MILITARY	NORMAL		TAKE-OFF	
	2200/2600/SL-33000	2000/2400/SL-33000		2200/2800/SL	
TANKAGE IN GALLONS		OIL	FUEL	OFFENSIVE ARMAMENT	
AUX. FIXED	PROTECTED	340	6938	Fwd. Bomb Bay:	
	UNPROTECTED			Torpedo - 1-MK 34 (See Note)	
	TOTAL - FIXED INTERNAL	340	6938	Depth Bombs - 4-MK 43	
	DROPPABLE			Aft Bomb Bay:	
	DROPPABLE			Torpedo - 1-MK 34	
TOTAL	340	6938	Depth Bombs - 4-MK 43		
NOTE	① BHP AT MAX. CRIT. ALT.				
	② STALL - WITHOUT POWER; Flaps, Gear Down				
	③ AT 1500' ALTITUDE				

DATE 1 NOVEMBER 1947

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MODEL P2B-IS

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Performance is based on flight tests. Fuel consumption of fuel injection engines based on carburetor engine flight tests adjusted for variation between the two types.

 Search radius is 40% range at vel. for max. range at 1500 ft. Allowance of 20% of initial fuel load for warm-up, take-off, climb and reserve is carried the entire distance. Bombs, torpedoes and radar also carried entire distance.

 ASW radius is 1/3 range at vel. for max. range at 1500 ft. Allowance of 20% of initial fuel load for warm-up, take-off, climb, and reserve is carried entire distance. Bombs, torpedoes, and radar also carried entire distance.

 Search and ASW radius reduced 7 nautical miles for each minute of maximum rated power operation at 1500'.

 Bomb bays are loaded so that torpedo must be released before depth bombs can be dropped.

 Ammunition: 1000 rds/gun forward, 500 rds/gun aft.

 Empty weight is weight equipped for ASW operation, less crew, fuel, oil, sonobuoys, float lights, torpedoes and depth bombs.

 All conditions include 28 sonobuoys and 60 floatlights.

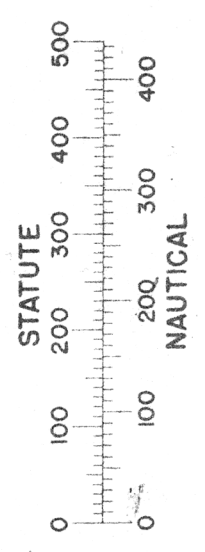
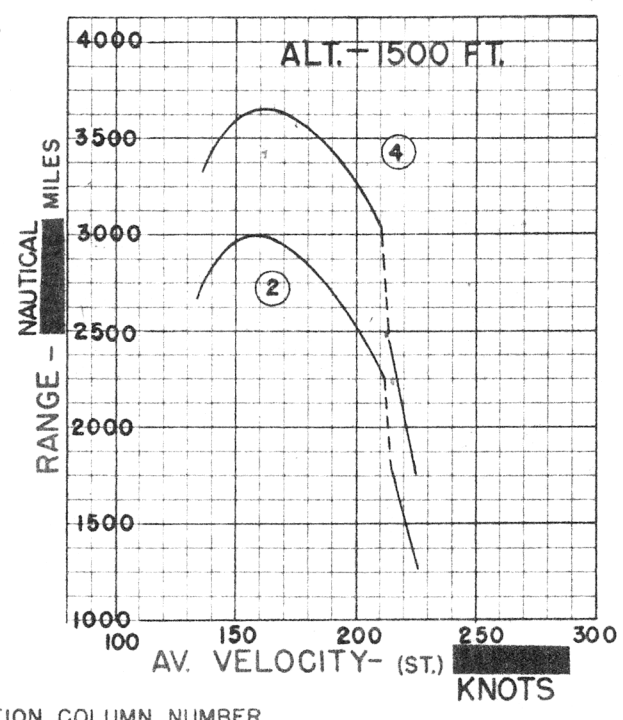
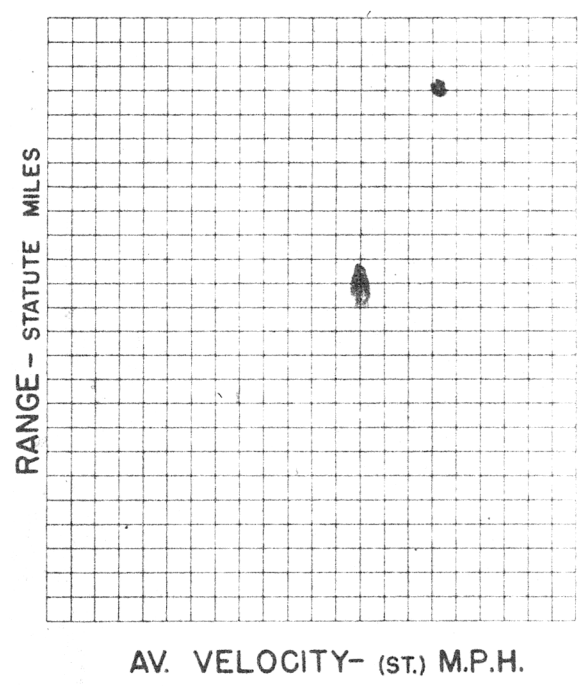
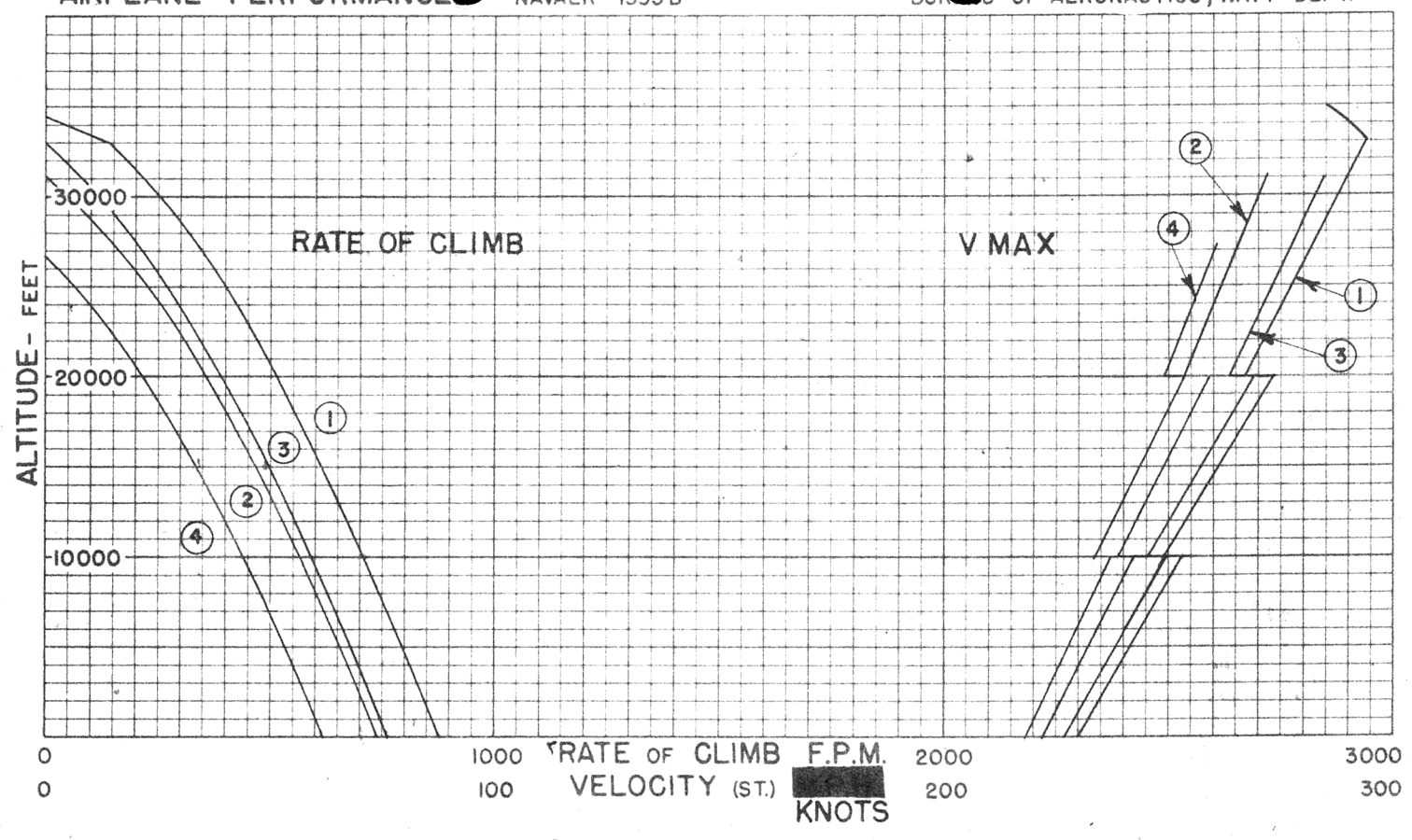
DESCRIPTION

Span 141'-2.76" Length 99'-0"
 Height 27'-9" Tread 28'-5.6"
 Wing Area 141.25 sq. ft. M.A.C. 12'-10.41"
 Prop.: 4 bladed Ham.Std.C.S., 16'-7" dia. Blade no. 6521-A6
 Wing Section; Boeing 117.

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AIRPLANE PERFORMANCE NAVAER - 1335 B

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○ LOADING CONDITION COLUMN NUMBER