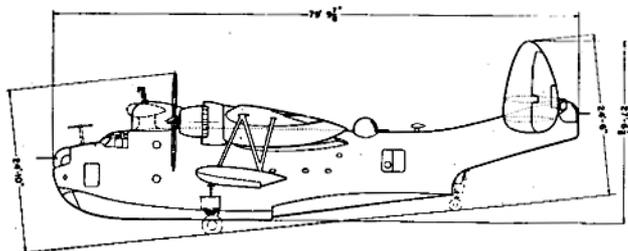
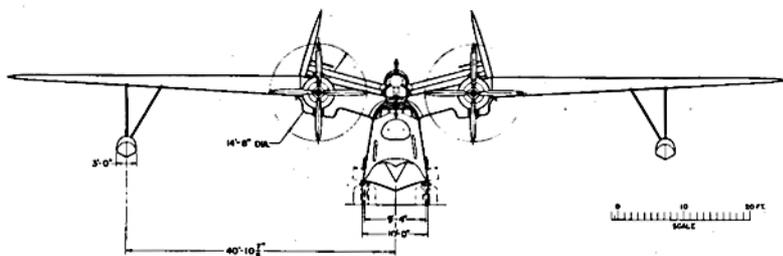
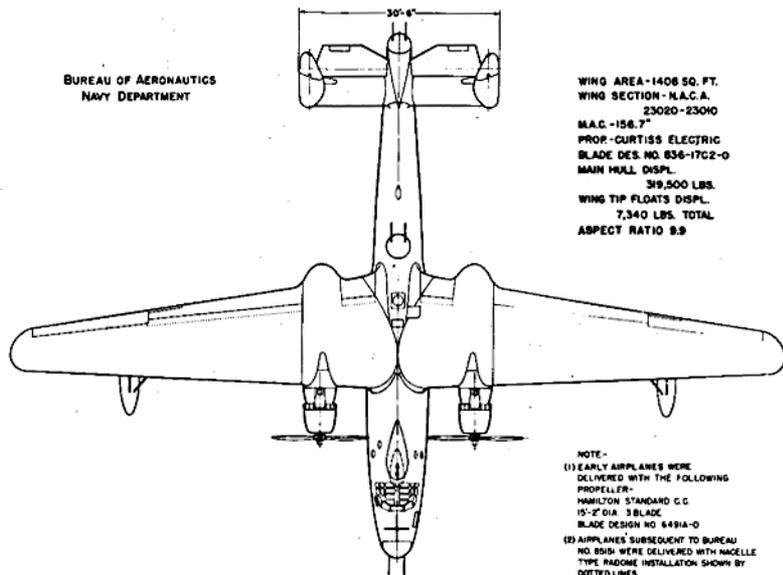


STANDARD AIRCRAFT CHARACTERISTICS
PBM-5 "MARINER"

BUREAU OF AERONAUTICS
NAVY DEPARTMENT



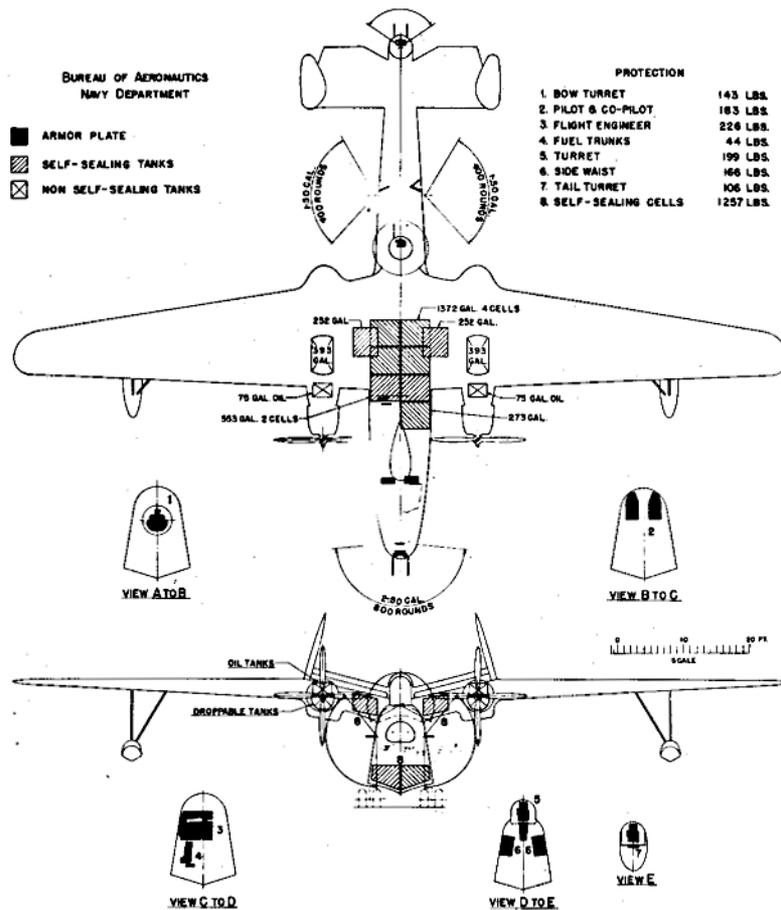
DESCRIPTIVE ARRANGEMENT

BUREAU OF AERONAUTICS
NAVY DEPARTMENT

- ARMOR PLATE
- ▨ SELF-SEALING TANKS
- ⊠ NON SELF-SEALING TANKS

PROTECTION

- | | |
|-----------------------|-----------|
| 1. BOW TURRET | 143 LBS. |
| 2. PILOT & CO-PILOT | 183 LBS. |
| 3. FLIGHT ENGINEER | 226 LBS. |
| 4. FUEL TRUNKS | 44 LBS. |
| 5. TURRET | 199 LBS. |
| 6. SIDE WAIST | 166 LBS. |
| 7. TAIL TURRET | 106 LBS. |
| 8. SELF-SEALING CELLS | 1257 LBS. |



ARMAMENT & TANKS



PERFORMANCE SUMMARY				
LOADING CONDITION		(1) Bomber 4-1000#	(3) Patrol	(5) Patrol
TAKE-OFF WEIGHT	lbs	60000	60000	56000
Fuel	lbs	15936	19770	16026
Bombs	lbs	4000		
Wing/Power Loading (A)	lbs/sq.ft.lbs/bhp	42.6/20.0	42.6/20.0	39.8/18.7
Stall Speed--Power off	kn	83.6	83.6	80.7
Stall Speed--Power off - No Fuel	kn	71.6	68.4	68.2
Stall Speed--Power on	kn	68.3	68.3	66.0
Maximum Speed/Alt (B)	kn/ft	182/19200	182/19200	187/19200
Take-off Distance, deck -- calm	ft			
Take-off Distance, deck	kn. ft			
Take-off Time	secs	57	57	43
Rate of climb -- sea level (B)	ft/min	610	610	730
Service Ceiling (B)	ft	21000	21000	22700
Time-to-climb 10000 ft. (B)	min	17.7	17.7	14.6
Time-to-climb 20000 ft. (B)	min	51.3	51.3	38.7
Combat Range/V av 1500	ft. n.mi/kn	1880/118	2420/117	2040/115
Combat Radius/V av 1500	ft. n.mi/kn	750/118	970/117	820/115
LOADING CONDITION		(2) Combat	(4) Combat	
GROSS WEIGHT	lbs	49626	49626	
Engine power		Military	Normal	
Fuel	lbs	9564	9564	
Bombs/Tanks				
Max. speed at sea level	kn	191	175	
Max. speed/ACA ft.	kn	206/18100	195/19300	
Combat speed/Alt.	kn/ft	194/1500	178/1500	
Rate of climb SL	ft/min	1330	960	
Ceiling for 500 fpm R/C	ft	21500	20400	
Time-to-climb/Alt.	min/ft	20.1/20000	26.2/20000	

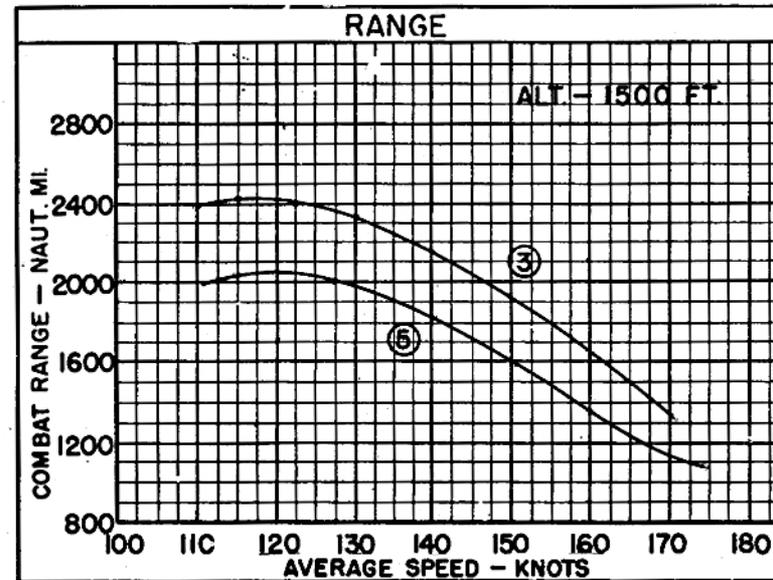
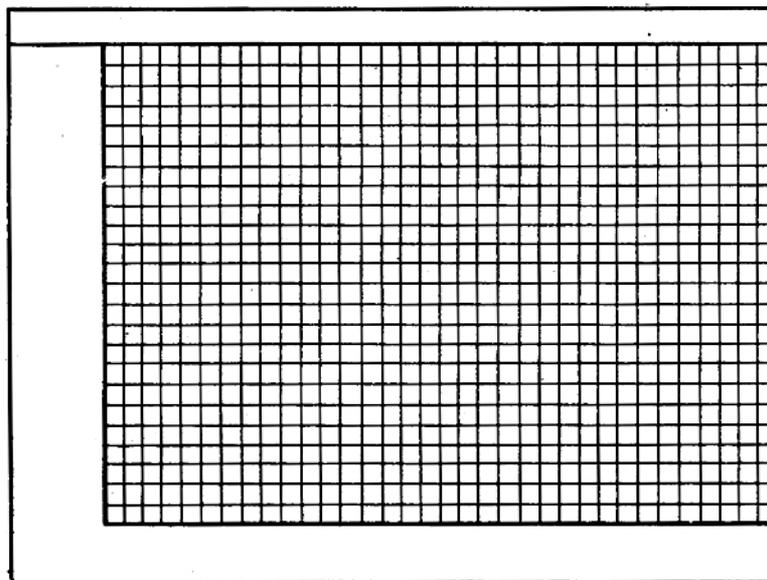
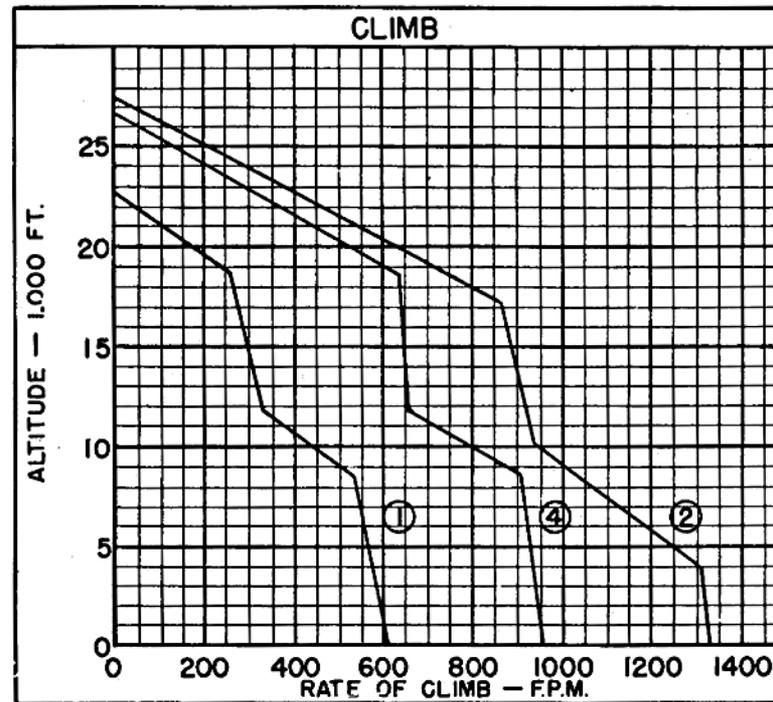
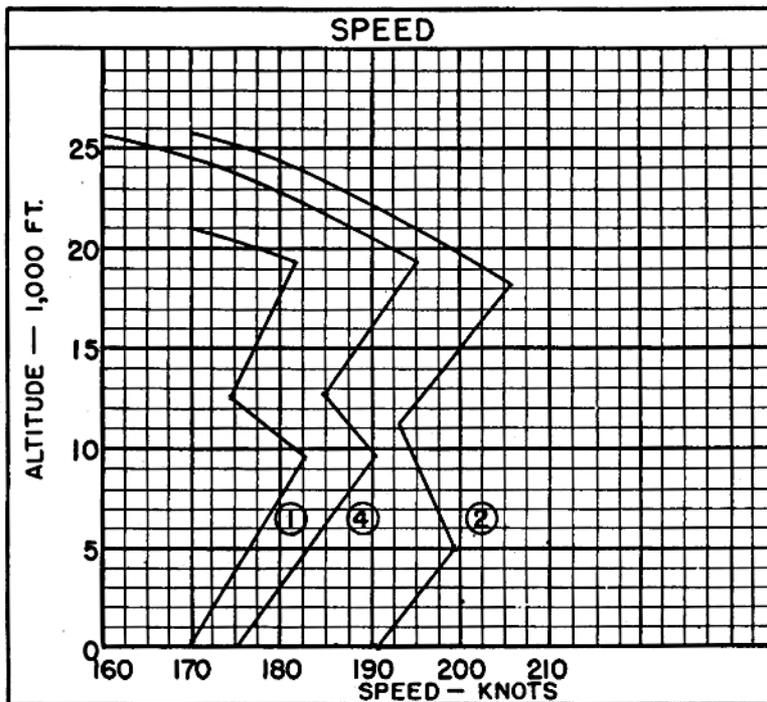
NOTES

- (A) BHP at Maximum Critical Altitude
 (B) Normal BHP

Performance is based on flight test of the PBM-5 airplane. Range and radius are based on flight test fuel consumption data of the PBM-5 airplane increased by 5%.

Maximum allowable weight for rough water take-off is 48000 pounds.

NOTES CONTINUED ON LAST PAGE



○ LOADING CONDITION COLUMN NUMBER

NOTES

The addition of 4-1000# 12 sec. JATO units decreases the take-off time approximately 33%.

Combat radius is .40 of maximum combat range at 1500 ft.