

**ISSUE OF 4 PAGES  
AIRPLANE CHARACTERISTICS & PERFORMANCE**

BUREAU OF AERONAUTICS, NAVY DEPT.

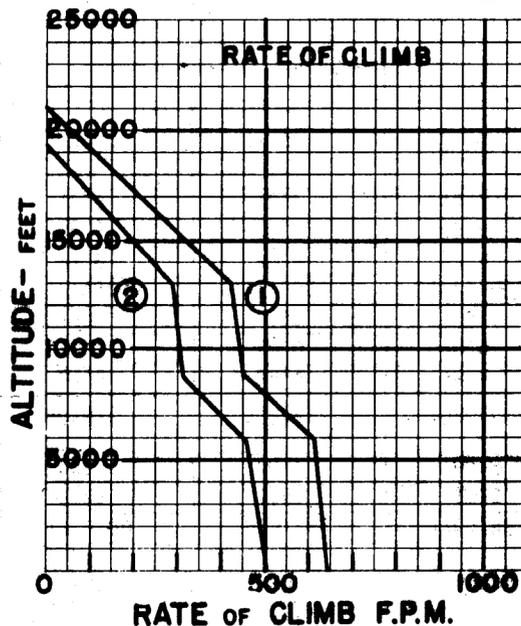
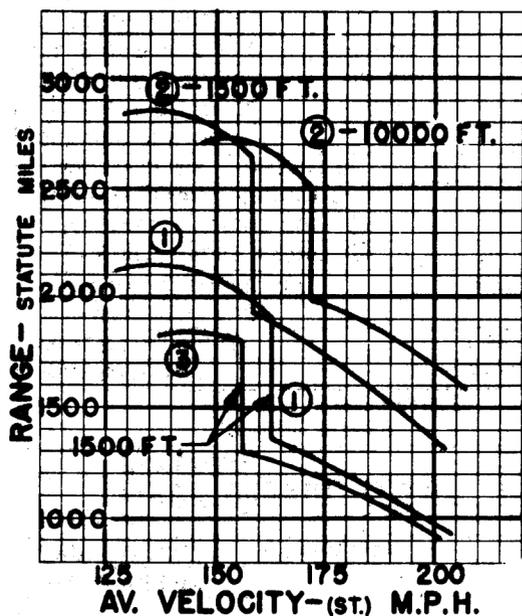
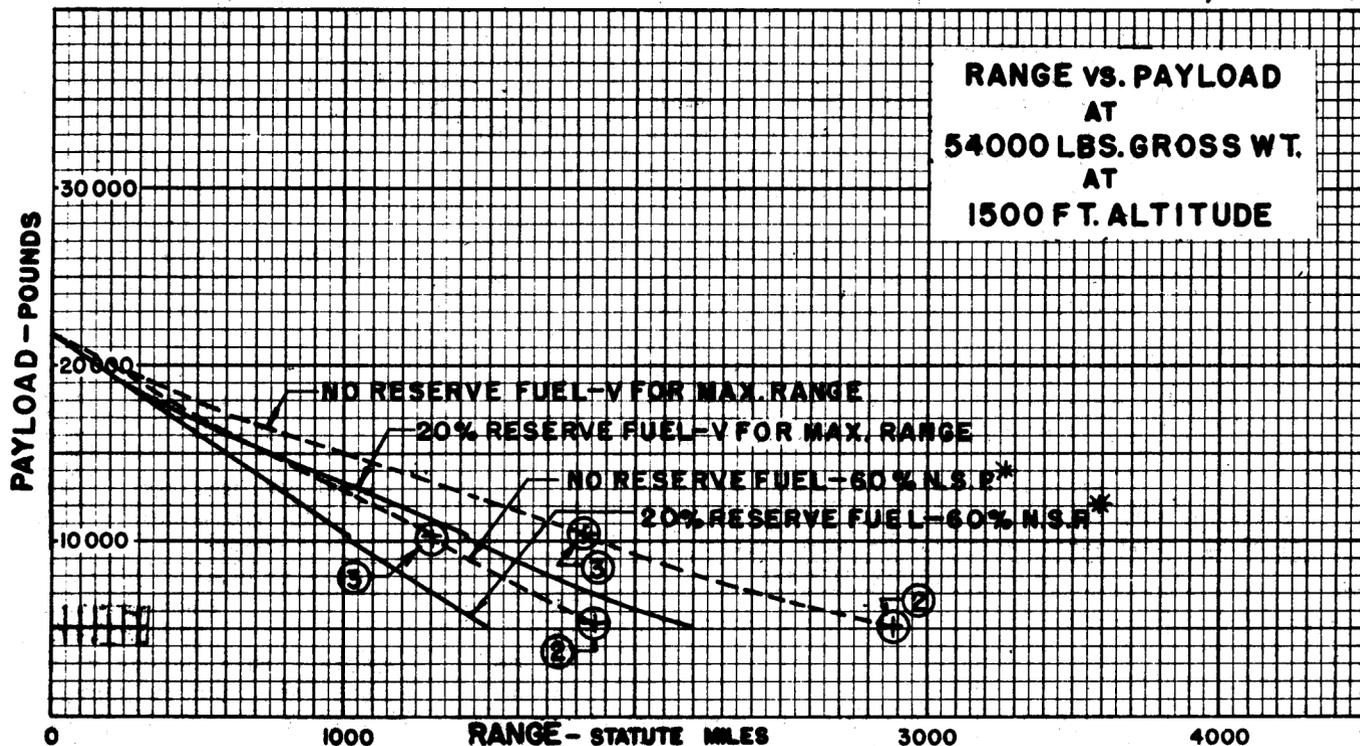
COLUMN NUMBER		1	2	3	
LOADING CONDITION		PASSENGER TRANSPORT	CARGO TRANSPORT Two B.B. Tanks	CARGO TRANSPORT	
GROSS WEIGHT	LBS.	48965	54000	54000	
EMPTY WEIGHT	- Calculated - LBS.		29510		
FUEL/OIL	GALS.	1750/98	2538/142	1750/98	
<b>FIXED USEFUL LOAD</b>	<b>LBS.</b>	3222	3162	2822	
<b>PAYLOAD</b>	<b>LBS.</b>	5000	5047	10433	
ENGINE POWER USED FOR PERFORMANCE		NORMAL	NORMAL	NORMAL	
WING LOADING	LBS./SQ.FT.	34.8	38.4	38.4	
POWER LOADING ①	LBS./BHP.	18.1	20.0	20.0	
V-MAX. SEA LEVEL	MPH.	201	199	199	
V-MAX./CRITICAL ALT	MPH./FT.	217/13000	213/13000	213/13000	
V-STALL GROSS WEIGHT ②	MPH.	73.9	77.6	77.6	
V-STALL WITHOUT FUEL ②	MPH.	65.5	65.8	69.6	
TIME-TO-CLIMB -10000FT-	MIN.	17.6	23.7	23.7	
TIME-TO-CLIMB -20000FT-	MIN.	--	--		
SERVICE CEILING	FT.	19200	17100	17100	
TAKE-OFF DISTANCE -CALM-	FT.				
TAKE-OFF DISTANCE -15 KN-	FT.				
TAKE-OFF DISTANCE -25 KN-	FT.				
TAKE-OFF DISTANCE -50 FT. OBST.	FT.				
TAKE-OFF TIME	SECONDS	37	53	53	
RATE OF CLIMB -SL-	FT./MIN.	630	500	500	
MAX. RANGE / V-AV. ③	ST. MI. / MPH.	2150/136	2865/138	1850/141	
RANGE / V-AV. -60%NSP-③-	ST. MI. / MPH.	1350/163	1905/160	1290/157	
SEARCH RADIUS / V-AV. -20%R-	NMI./KN.				
A.S.W. RADIUS / V-AV. -20%R-	NMI./KN.				
SCOUT RADIUS	N MI.				
COMBAT RADIUS	N MI.				
ENGINE / PROP GEAR RATIO		2-W.A.C. R-2600-12(16:7)			
ENGINE RATING BHP/RPM/ALT.	NORMAL	Performance based on prototype flight test. Range is based on flight test fuel consumption data increased by 5% to conform with past experience.			
	1500/2400/SL-5800				
	1350/2400/8800-13000				
TAKE-OFF BHP/RPM/SL	1700/2800/SL	Fixed Useful Load - Crew, trapped fuel & oil, and equipment. Col. 1 F.U.L. includes troop carrying provisions. Col. 2 F.U.L. includes bomb-bay fuel tanks.			
TANKAGE IN GALLONS		OIL	FUEL		
AUX. FIXED	PROTECTED			Payload - Passengers, baggage, and cargo	
	UNPROTECTED	150	1750	Weight Empty includes de-icer boots and 50% of radio equipment.	
	TOTAL - FIXED INTERNAL	150	1750		
	DROPPABLE			Performance with one engine inoperative, propeller feathered, flaps and landing gear retracted is estimated to be -	
	DROPPABLE - Bomb-bays - unprotected - 2 @ 394			788	Gross Wt = 45900, Rate of Climb - SL - 100 ft/min. at T.O. power.
TOTAL	150	2538	Gross Wt. = 42000, Service Ceiling - 1000 ft at normal power.		
NOTE	STATUTE MILES USED-EXCEPT-RADIUS IS GIVEN IN NAUTICAL MILES & KNOTS				
	① BHP AT MAX. CRIT. ALT.				
	② STALL-WITH POWER				
③ AT 1500' ALTITUDE					

Supersedes PDM-3R dated 1-26-43

DATE 1 October 1944

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MODEL PBM-3R

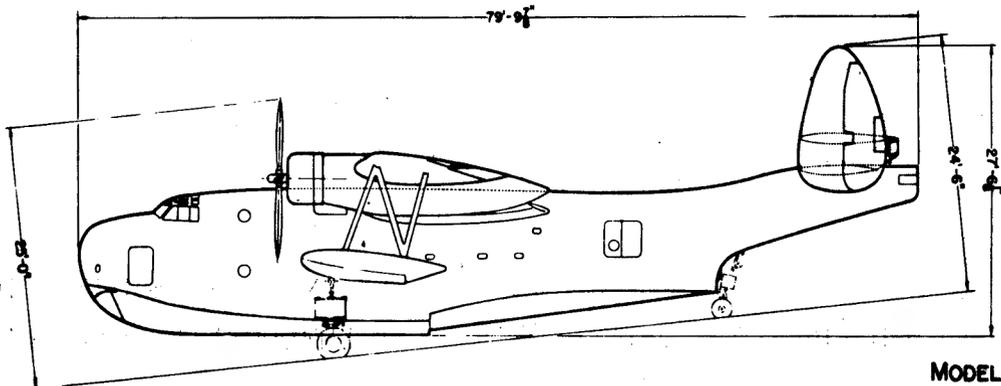
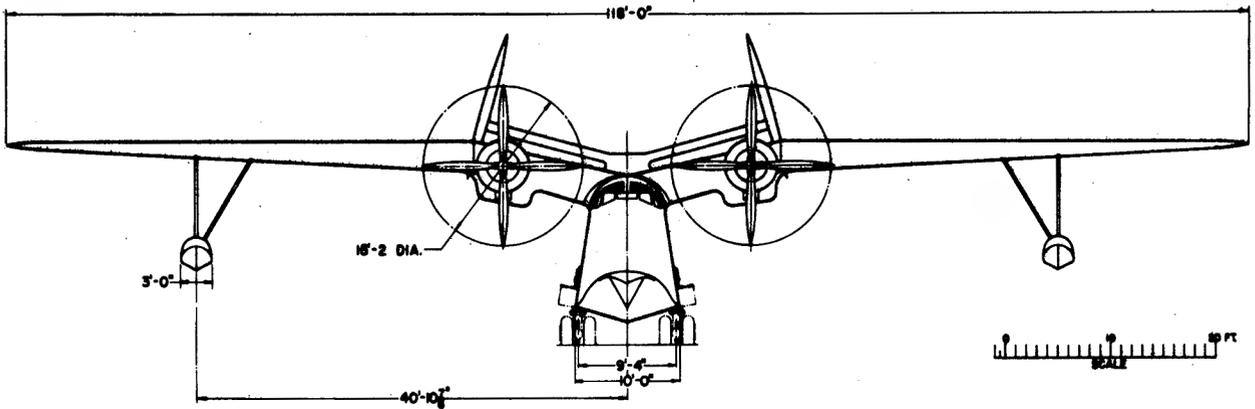
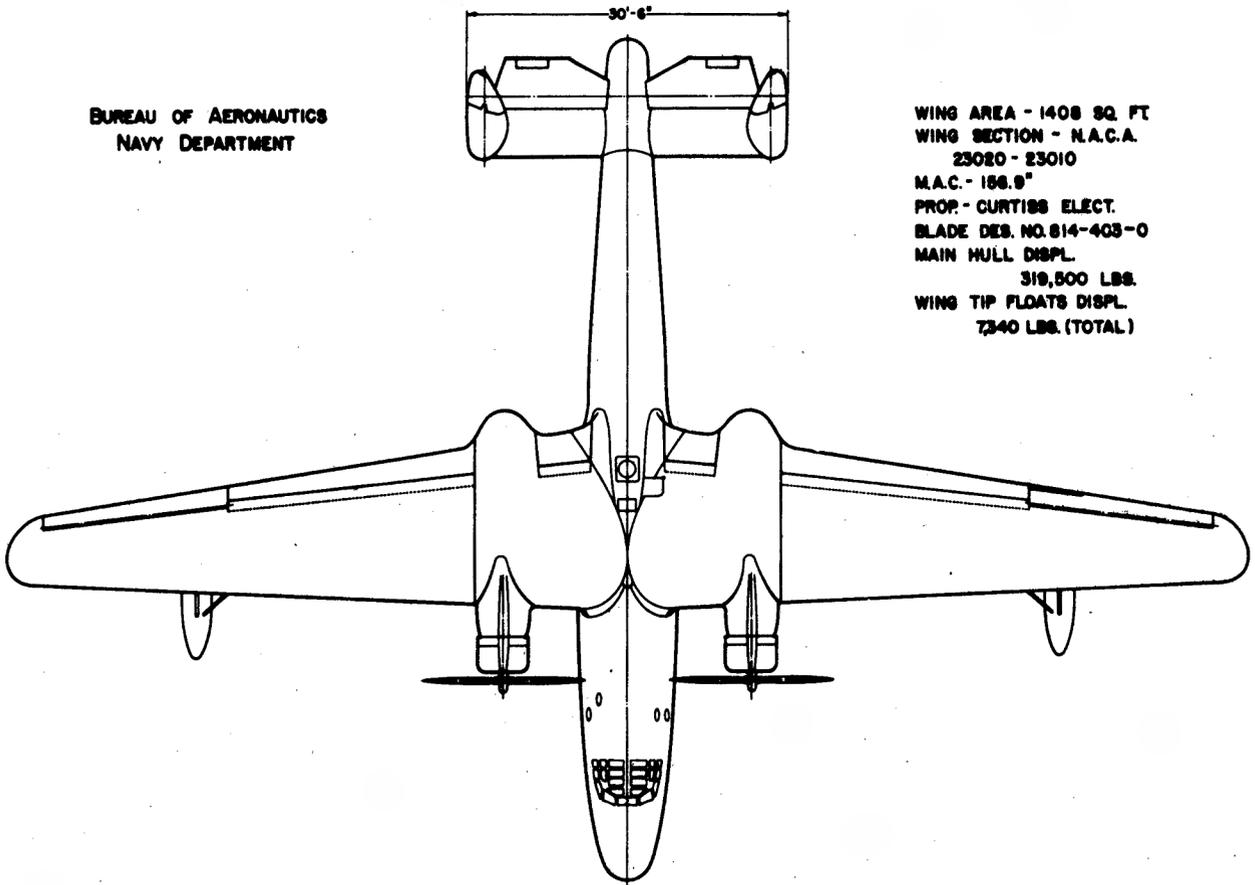


○ LOADING CONDITION COLUMN NUMBER

\* NORMAL SEA LEVEL POWER

BUREAU OF AERONAUTICS  
NAVY DEPARTMENT

WING AREA - 1408 SQ. FT.  
WING SECTION - N.A.C.A.  
23020 - 23010  
M.A.C. - 188.9"  
PROP. - CURTISS ELECT.  
BLADE DES. NO. 814-403-0  
MAIN HULL DISPL.  
319,500 LBS.  
WING TIP FLOATS DISPL.  
7340 LBS. (TOTAL)



MODEL PBM-3R