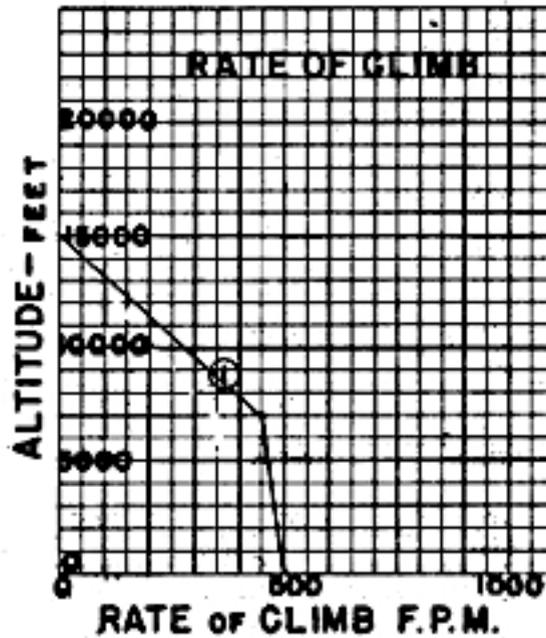
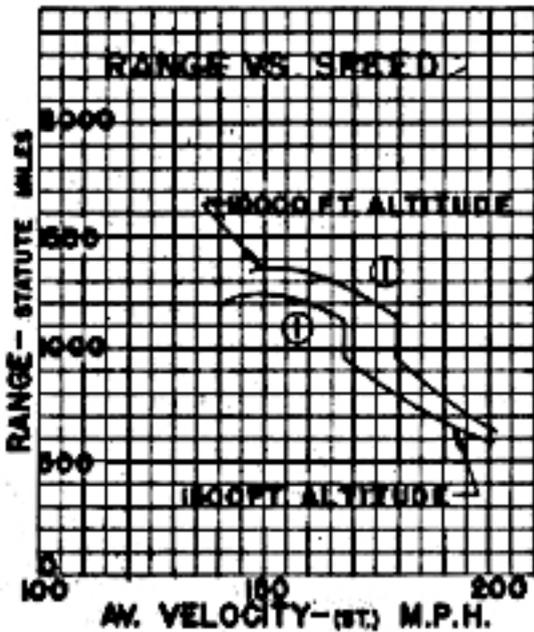
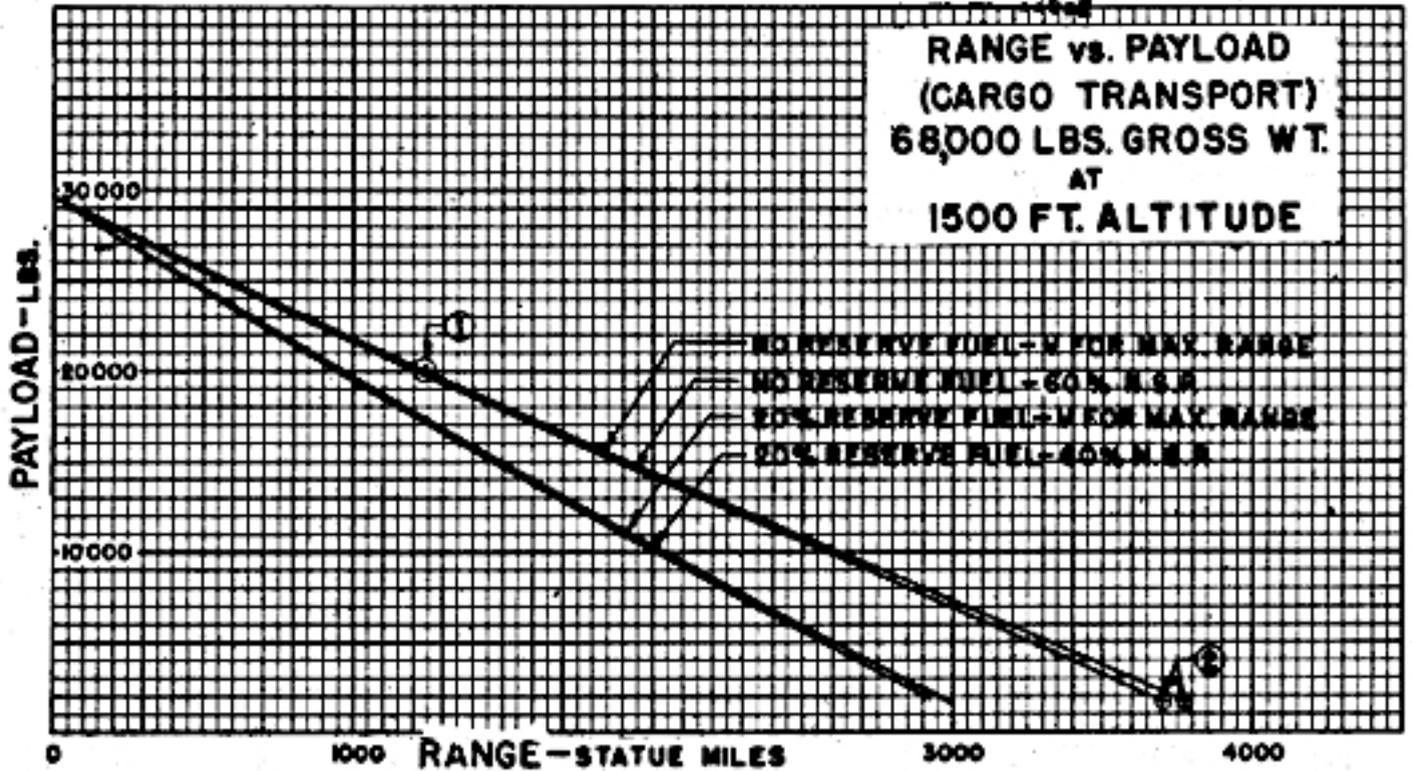


**AIRPLANE CHARACTERISTICS & PERFORMANCE**

BUREAU OF AERONAUTICS, NAVY DEPT

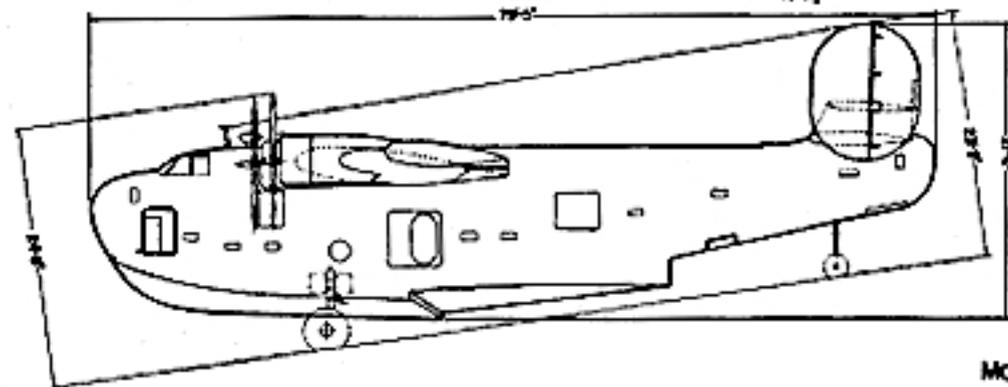
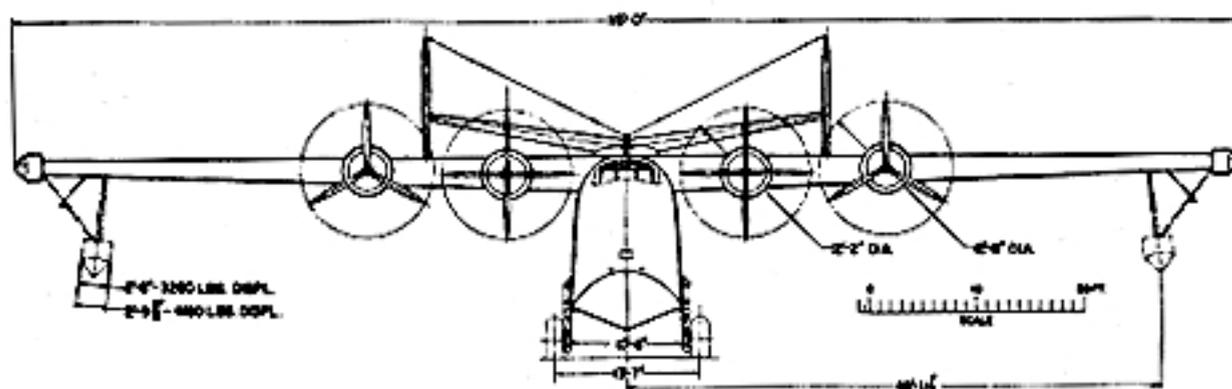
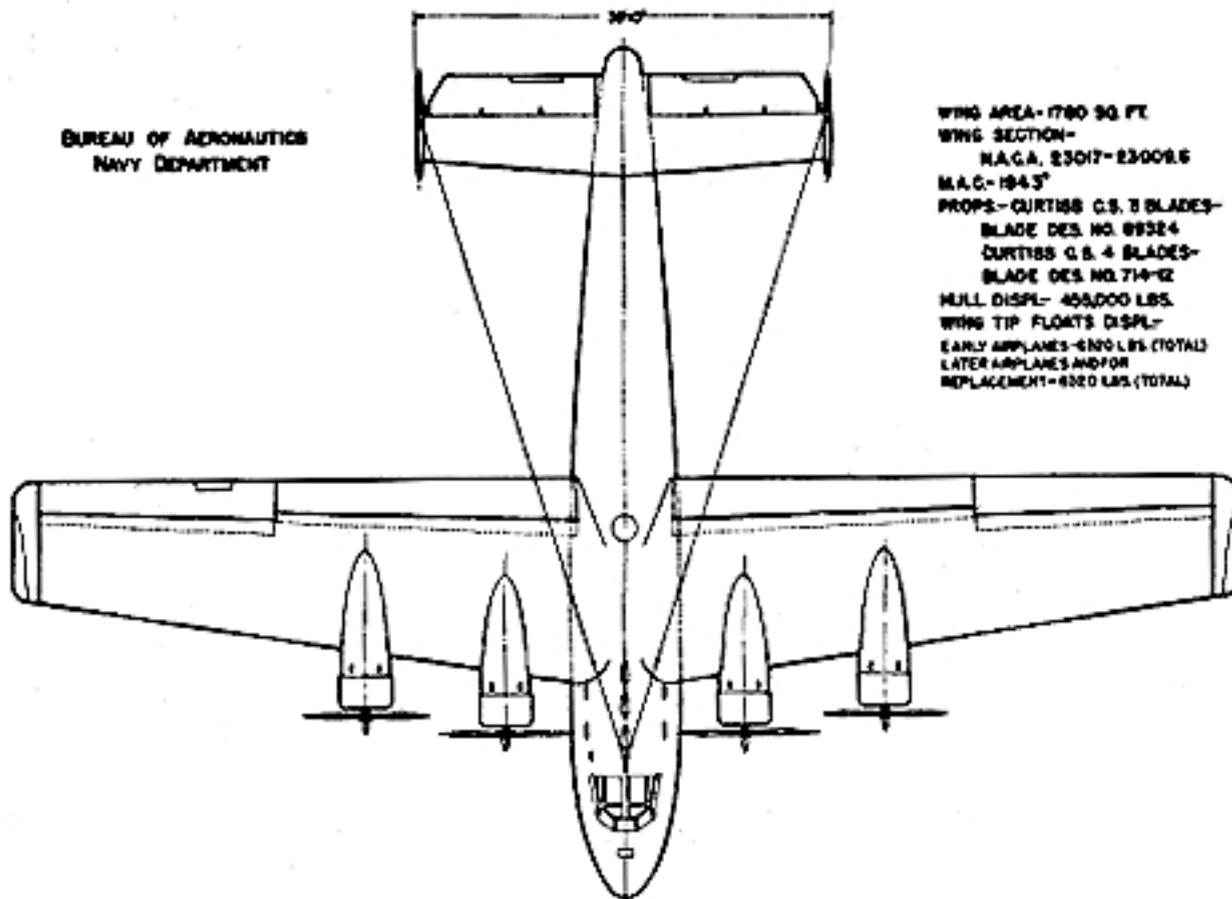
COLUMN NUMBER		1	2	3	
LOADING CONDITION		CARGO TRANSPORT	CARGO TRANSPORT	PASSENGER TRANSPORT	
GROSS WEIGHT	LBS.	68000	68000	68000	
EMPTY WEIGHT - Calculated	LBS.	35693			
FUEL/OIL	GALS.	1501/84	4360/240	3226/180	
FIXED USEFUL LOAD	LBS.	2669			
PAYLOAD	LBS.	20000	1678	8000	
ENGINE POWER USED FOR PERFORMANCE		NORMAL	NORMAL	NORMAL	
WING LOADING	LBS./SQ FT.	38.2	38.2	38.2	
POWER LOADING (1)	LBS./BHP.	16.2	16.2	16.2	
V-MAX SEA LEVEL	MPH.	198	198	198	
V-MAX / CRITICAL ALT.	MPH/FT.	212/7000	212/7000	212/7000	
V-STALL GROSS WEIGHT (2)	MPH.	75.1	75.1	75.1	
V-STALL WITHOUT FUEL (2)	MPH.	79.8	59.8	64.4	
TIME-TO-CLIMB -10000 FT-	MIN.	23.3	23.3	23.3	
TIME-TO-CLIMB -20000 FT-	MIN.				
SERVICE CEILING	FT.	13100	13100	13100	
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	80	80	80	
RATE OF CLIMB -SL-	FT./MIN.	890	890	890	
MAX. RANGE / V-AV. (3)	ST. MI./MPH.	1240/150	3780/156	2760/154	
RANGE / V-AV -80% NSP (3)	ST. MI./MPH.	1230/162	3700/168	2710/166	
SEARCH RADIUS / V-AV -80% R-	NMI./KM.	NOTE: WEIGHTS AND PERFORMANCE INCLUDE DE-ICING EQUIPMENT.			
A.S.W. RADIUS / V-AV -80% R-	NMI./KM.	Removal of de-icer boots increases V max/SL by 3 mph, and max. range at 1500 ft. by 1.9 percent			
SCOUT RADIUS	N MI.				
COMBAT RADIUS	N MI.				
ENGINE / PROP GEAR RATIO		4 P.H.U. R-1850-92 (16:9)			
ENGINE RATING BHP/RPM/ALT.	NORMAL				
	1050/2550/SL-7000				
TAKE-OFF		NOTES			
1200/2700		Performance is based on flight test. Range is based on engine requirement fuel consumption data increased by 15% to conform with test experience.			
		WEIGHT EMPTY includes de-icing equipment and 550# of radio equipment			
AUX. FIXED	TANKAGE IN GALLONS	OL.	FUEL		
	PROTECTED			PAYLOAD - Passengers seats and baggage	
	UNPROTECTED	260	4360	FIXED USEFUL LOAD - Crew, trapped fuel and oil and equipment (incl. 3 P.H.U. includes seats & comm. equipment)	
	TOTAL - FIXED INTERNAL	260	4360		
	DROPPABLE			NOTE: Weights and Performance based on use of small wing-tip float, installation of 4160# displacement float reduces max. range at 1500ft. by 1% and Vmax/SL by 2mph	
DROPPABLE			Performance with one engine inoperative (flaps & landing gear up, propeller feathered) is estimated to be		
TOTAL	260	4360	GROSS WEIGHT 48899		
NOTE	STATUTE MILES USED-EXCEPT-RADIUS IS GIVEN IN NAUTICAL MILES & KNOTS		R/C - SL - P.O. power 475 fpm		
	(1) BHP AT MAX. CRIT. ALT.		Service Ceiling - Normal Power : 1000 ft. @ 64250#		
	(2) STALL - WITH POWER				
(3) AT 1500' ALTITUDE					



○ LOADING CONDITION COLUMN NUMBER

BUREAU OF AERONAUTICS  
NAVY DEPARTMENT

WING AREA-1780 SQ. FT.  
WING SECTION-  
N.A.C.A. 23017-23009.6  
M.A.C.-19.43"  
PROPS-CURTISS C.S. 3 BLADES-  
BLADE DES. NO. 69324  
CURTISS C.S. 4 BLADES-  
BLADE DES. NO. 714-12  
HULL DISPL.-405,000 LBS.  
WING TIP FLOATS DISPL.-  
EARLY AIRPLANES-6200 LBS. (TOTAL)  
LATER AIRPLANES AND FOR  
REPLACEMENT-4320 LBS. (TOTAL)



MODEL PB2Y-5R