

AIRPLANE CHARACTERISTICS & PERFORMANCE

BUREAU OF AERONAUTICS, NAVY DEPT

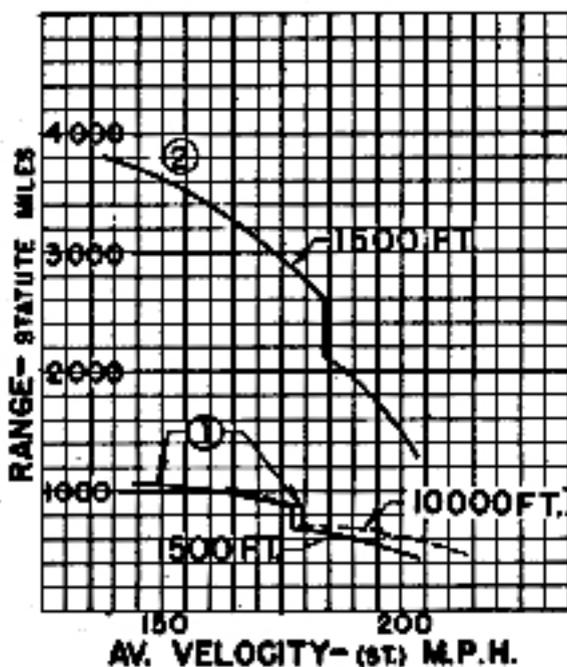
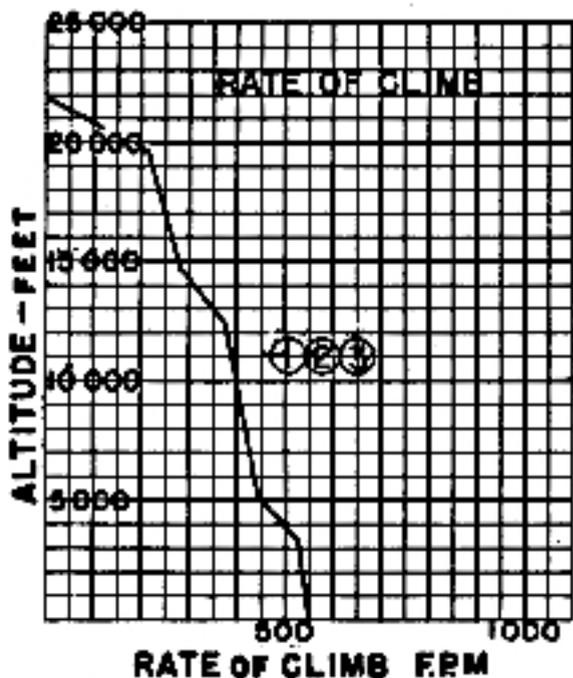
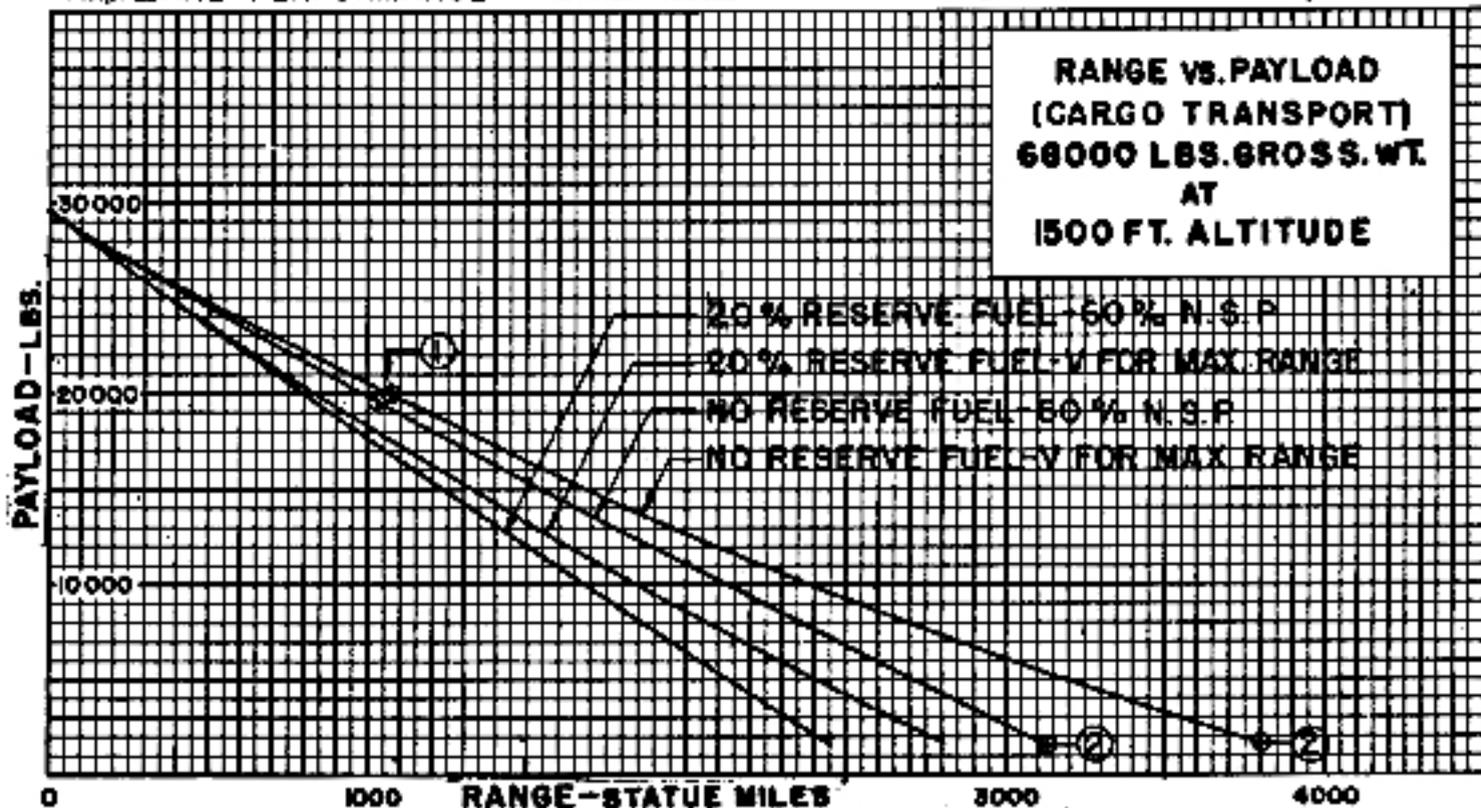
COLUMN NUMBER		1	2	3	
LOADING CONDITION		CARGO TRANSPORT	CARGO TRANSPORT	PASSENGER TRANSPORT	
GROSS WEIGHT	LBS.	68000	68000	68000	
EMPTY WEIGHT - Actual -	LBS.	35635			
FUEL/OIL	GALS.	1511/84	4360/240	3240/178	
FIXED USEFUL LOAD	LBS.	2669	2669	3599	
PAYLOAD	LBS.	20000	1736	8000	
ENGINE POWER USED FOR PERFORMANCE		NORMAL	NORMAL	NORMAL	
WING LOADING	LBS./SQ.FT.	38.2	38.2	38.2	
POWER LOADING ①	LBS./BHP.	17.0	17.0	17.0	
V-MAX. SEA LEVEL	MPH.	200	200	200	
V-MAX./CRITICAL ALT.	MPH./FT.	225/19500	225/19500	225/19500	
V-STALL GROSS WEIGHT ②	MPH.	76.2	76.2	76.2	
V-STALL WITHOUT FUEL ②	MPH.	70.8	59.8	64.4	
TIME-TO-CLIMB -10000FT-	MIN.	21.7	21.7	21.7	
TIME-TO-CLIMB -20000FT-	MIN.				
SERVICE CEILING	FT.	20800	20800	20800	
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.	550	550	550	
MAX. RANGE / V-AV. ③	ST. MI. / MPH.	1070/144	3810/137	2600/140	
RANGE / V-AV. -60%NSP-③	ST. MI. / MPH.	1020/159	3140/170	2280/166	
SEARCH RADIUS / V-AV. -20%R-	NMI. / KN.	NOTE: WEIGHTS AND PERFORMANCE			Include de-icing equipment.
A.S.W. RADIUS / V-AV. -20%R-	NMI. / KN.	Removal of de-icer boots decreases V max/SL by 3 mph and			
SCOUT RADIUS	N MI.	max. range at 1500 ft. by 2%.			
COMBAT RADIUS	N MI.				
ENGINE / PROP. GEAR RATIO - 4 P. & W. R-1830-BB(16:9)					
ENGINE RATING BHP/RPM/ALT.	NORMAL		NOTES		
	1100/2550/SL-3300'		Performance is based on flight test. Range is based on		
	1040/2550/5000'		flight test fuel consumption data increased by 5% to conform		
	1050/2550/12500'		with past experience.		
	990/2550/14500'		WEIGHT EMPTY includes de-icer boots and 500 lbs. of radio		
	1000/2550/19500'		equipment.		
TAKE-OFF - 1200/2700/SL		PAYLOAD - passengers, cargo, and baggage			
AUX. FIXED	TANKAGE IN GALLONS		OIL	FUEL	FIXED USEFUL LOAD - crew, trapped fuel and oil, and equip-
	PROTECTED				ment (condition) F.U.L. includes seats and passenger
	UNPROTECTED		260	4360	equipment)
	TOTAL - FIXED INTERNAL		260	4360	PERFORMANCE WITH ONE ENGINE INOPERATIVE (flaps and land-
	DROPPABLE				ing gear up, propeller feathered) is estimated to be
	DROPPABLE				GROSS WEIGHT 68000#
TOTAL		260	4360	R/C-S.L.-T.O. power 165 ft./min.	
NOTE	STATUTE MILES USED - EXCEPT - RADIUS IS		Service ceiling - normal power - 1000' at 66300#		
	GIVEN IN NAUTICAL MILES & KNOTS		Large size floats will decrease V-max. about 2 mph and		
	① BHP AT MAX. CRIT. ALT		range 1%		
	② STALL - WITH POWER				
③ AT 1500' ALTITUDE					

Supersedes 21 Nov. 1942

DATE 1 JANUARY 1945

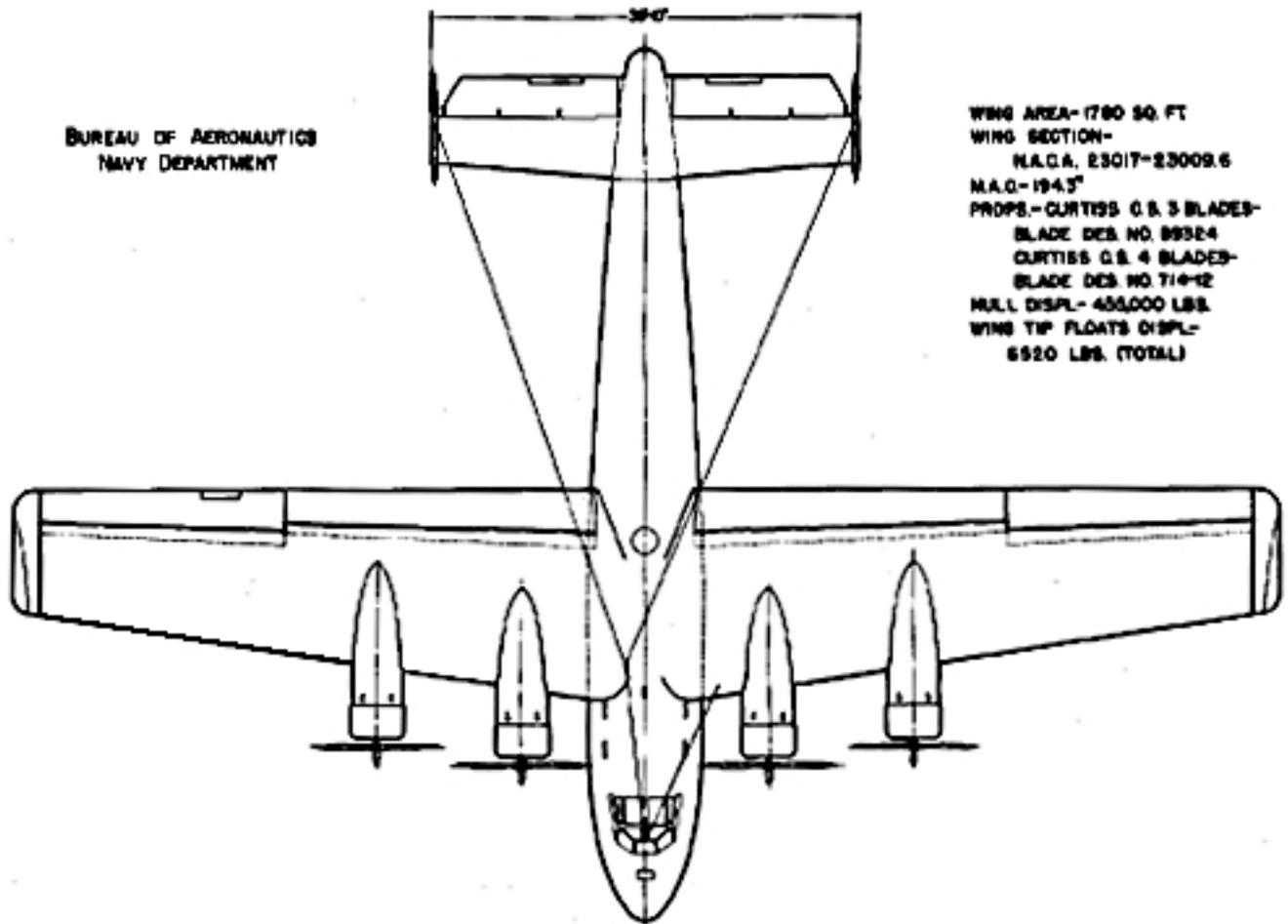
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MODEL PB2Y-3R



○ 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-194.5"
PROPS.-CURTISS C.B. 3 BLADES-
BLADE DES. NO. 893E4
CURTISS C.B. 4 BLADES-
BLADE DES. NO. 714-12
FULL DISPL.-455,000 LBS.
WING TIP FLOATS DISPL.-
6520 LBS. (TOTAL)

