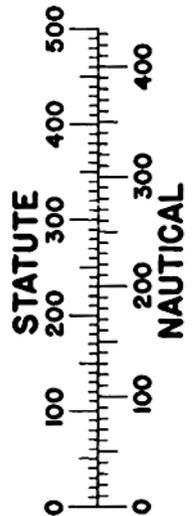
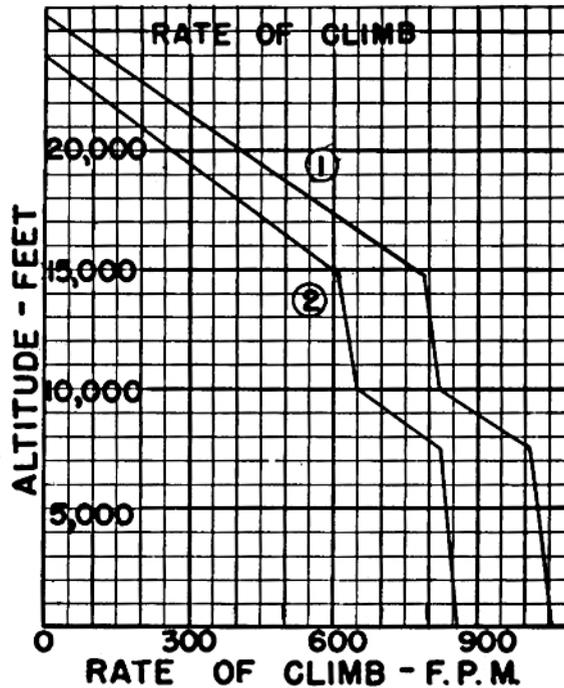
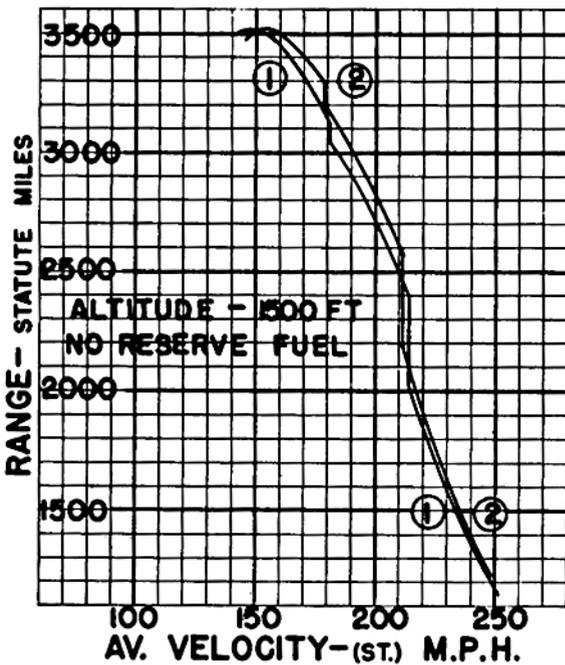
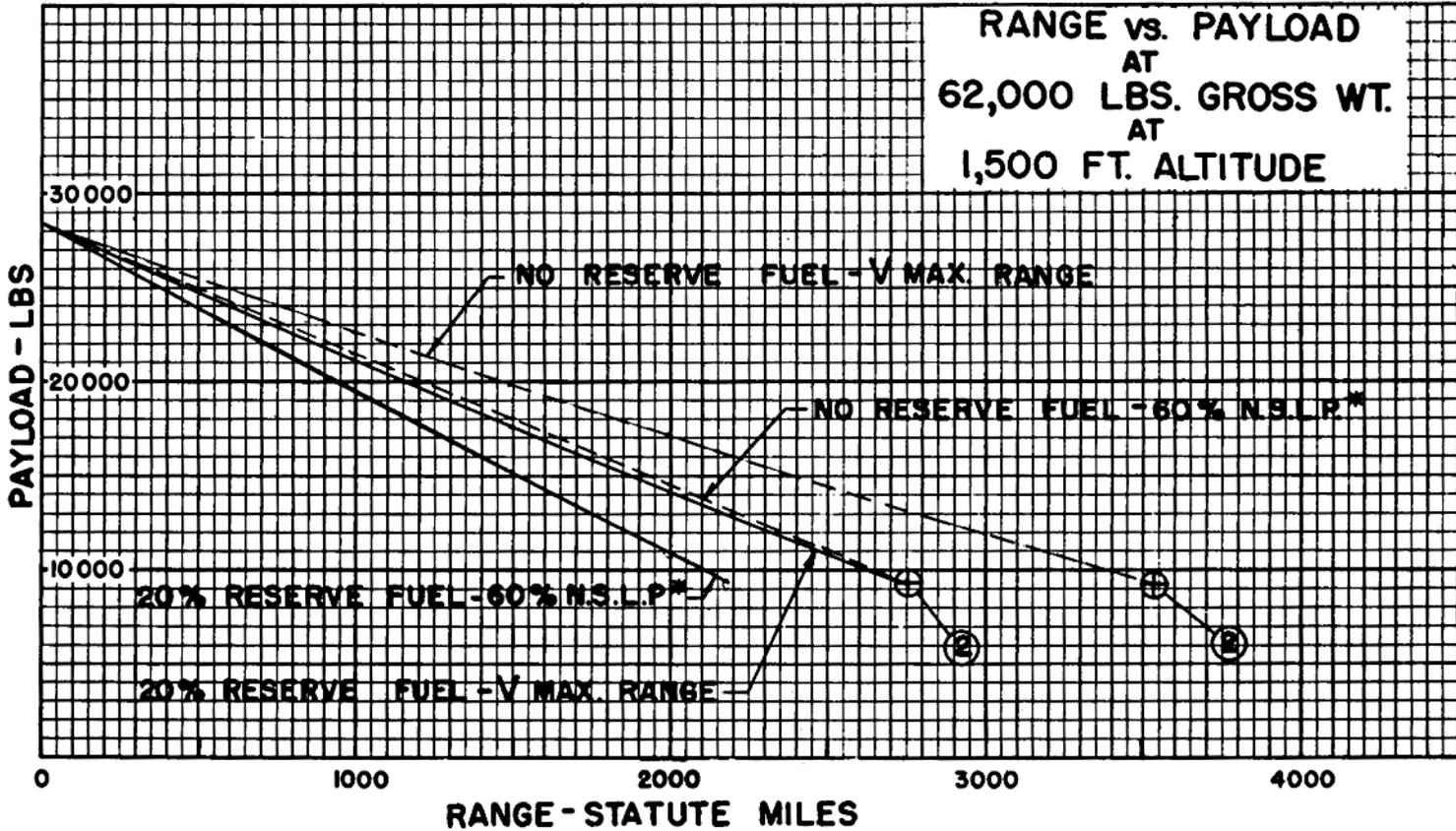


AIRPLANE CHARACTERISTICS & PERFORMANCE

BUREAU OF AERONAUTICS, NAVY DEPT.

COLUMN NUMBER		1	2	3	
LOADING CONDITION		TRANSPORT 28 Passengers	TRANSPORT 28 Passengers and Cargo	CARGO	
GROSS WEIGHT	LBS.	56000	62000	62000	
EMPTY WEIGHT	- Estimated - LBS.	31081		30485	
FUEL/OIL	GALS.	2774/156	3000/164	3000/164	
FIXED USEFUL LOAD	LBS.	2345			
PAYLOAD	LBS.	4760	9344	9940	
ENGINE POWER USED FOR PERFORMANCE		NORMAL	NORMAL	NORMAL	
WING LOADING	LBS./SQ.FT.	52.9	52.6	52.6	
POWER LOADING ①	LBS./BHP.	14	15.5	15.5	
V-MAX. SEA LEVEL	MPH.	247	245	245	
V-MAX. AIRPLANE CRIT. ALT.	MPH.	273/14700	270/14700	270/14700	
V-STALL GROSS WEIGHT ②	MPH.	91.9	96.7	96.7	
V-STALL WITHOUT FUEL ②	MPH.	77.0	81.4	81.4	
TIME-TO-CLIMB -10000FT-	MIN.	10.0	12.3	12.3	
TIME-TO-CLIMB -20000FT-	MIN.	25.0	32.6	32.6	
SERVICE CEILING	FT.	24300	22500	22500	
TAKE-OFF DISTANCE OVER 50 FT. OBST.	FT.	2684	3613	3613	
TAKE-OFF DISTANCE -15 KN-	FT.				
TAKE-OFF DISTANCE -25 KN-	FT.				
TAKE-OFF TIME	SECONDS				
RATE OF CLIMB -SL-	FT/MIN.	1060	880	880	
MAX. RANGE/V-AV. ③	STMI/MPH.	3525/147	3525/154	3525/154	
RANGE/V-AV -60%NSP ③	STMI/MPH.	2590/208	2750/205	2750/205	
BOMBING RADIUS/V-AV -33%R-	NMI/KN.				
PATROL RADIUS/V-AV -20%R-	NMI/KN.				
PATROL RADIUS/V-AV -33%R-	NMI/KN.				
SCOUT RADIUS	N MI.				
COMBAT RADIUS	N MI.				
ENGINE / PROP GEAR RATIO		4 P&W R-1830-94/16 to a			
ENGINE RATING BHP/RPM/ALT.	NORMAL	NOTES			
	1100/2600/SL-7500	PAYLOAD=Passengers, Baggage and Cargo			
	1000/2600/10000-14700	BASIC USEFUL LOAD = Crew, trapped fuel and oil and equipment.			
	TAKE-OFF 1350/2800	WEIGHT EMPTY includes Communicating equipment and Heat de-icing. In Column #3 Seats are removed.			
TANKAGE IN GALLONS		OIL	FUEL	Performance with one engine inoperative (propeller feathered, and with flaps and landing gear up) is as follows.	
AUX. FIXED	PROTECTED			follows.	
	UNPROTECTED	180	3000	Gross Weight - 62000 lbs.	
	TOTAL - FIXED INTERNAL	180	3000	Rate of Climb - SL. (T.O. power) - 630 f.p.m.	
	DROPPABLE			Service Ceiling (normal power) - 16300 ft.	
	DROPPABLE				
	TOTAL	180	3000	Performance data are based on prototype flight test. Range is based on engine requirement fuel consumption increased by 15 percent to conform with past experience.	
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				

RANGE vs. PAYLOAD
AT
62,000 LBS. GROSS WT.
AT
1,500 FT. ALTITUDE

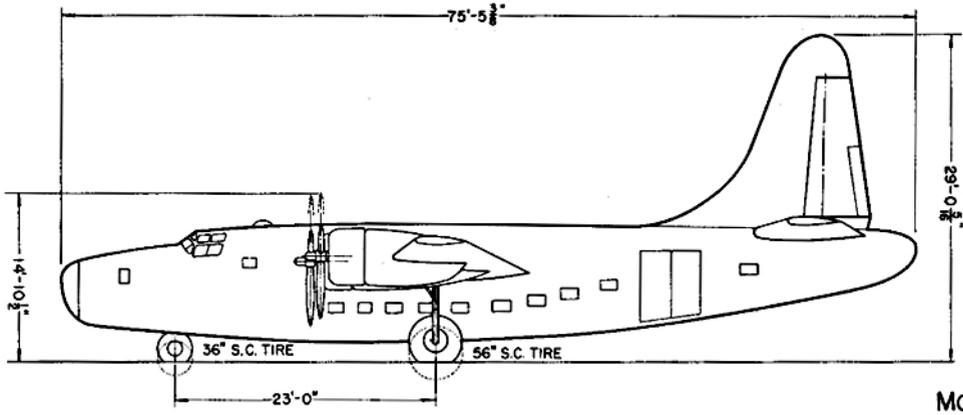
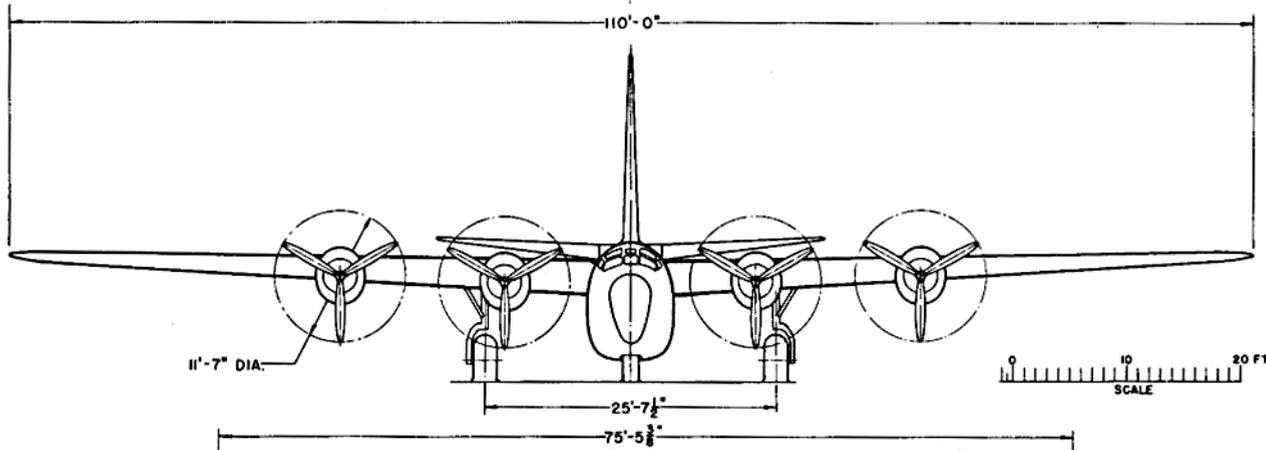
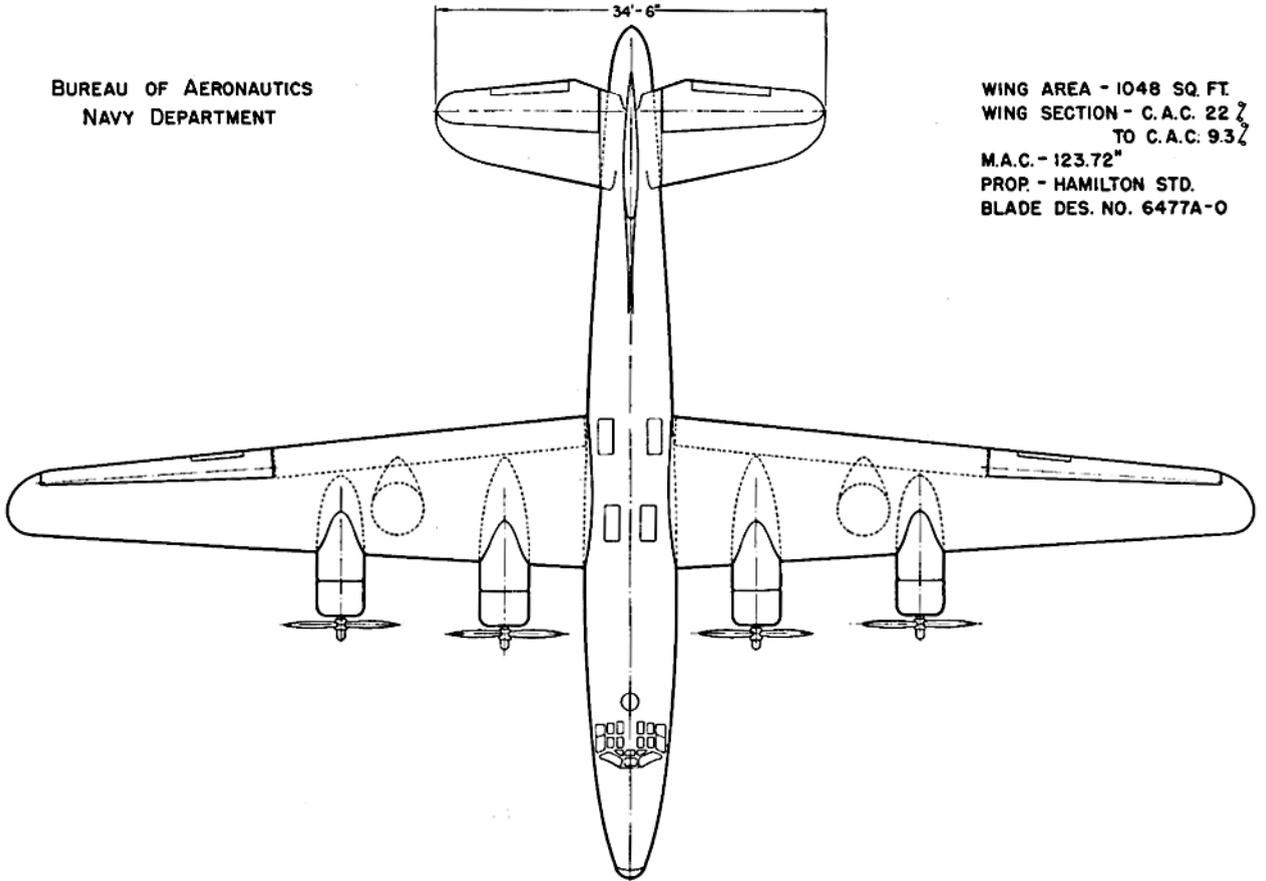


○ LOADING CONDITION COLUMN NUMBER

* NORMAL SEA LEVEL POWER

BUREAU OF AERONAUTICS
NAVY DEPARTMENT

WING AREA - 1048 SQ. FT.
WING SECTION - C.A.C. 22
TO C.A.C. 93
M.A.C. - 123.72"
PROP. - HAMILTON STD.
BLADE DES. NO. 6477A-0



MODEL RY-3