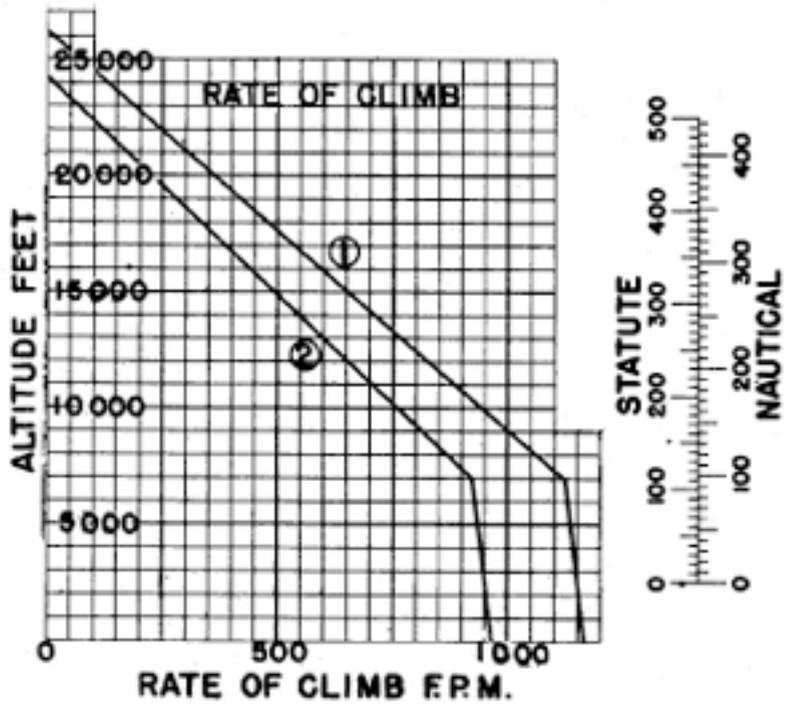
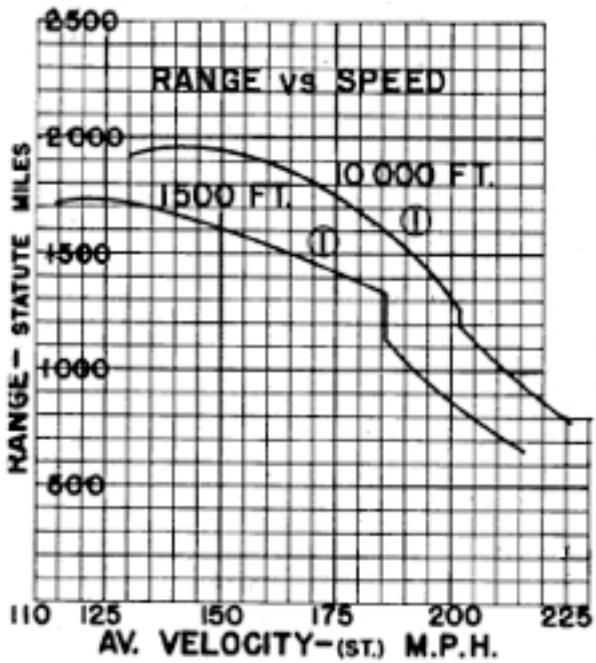
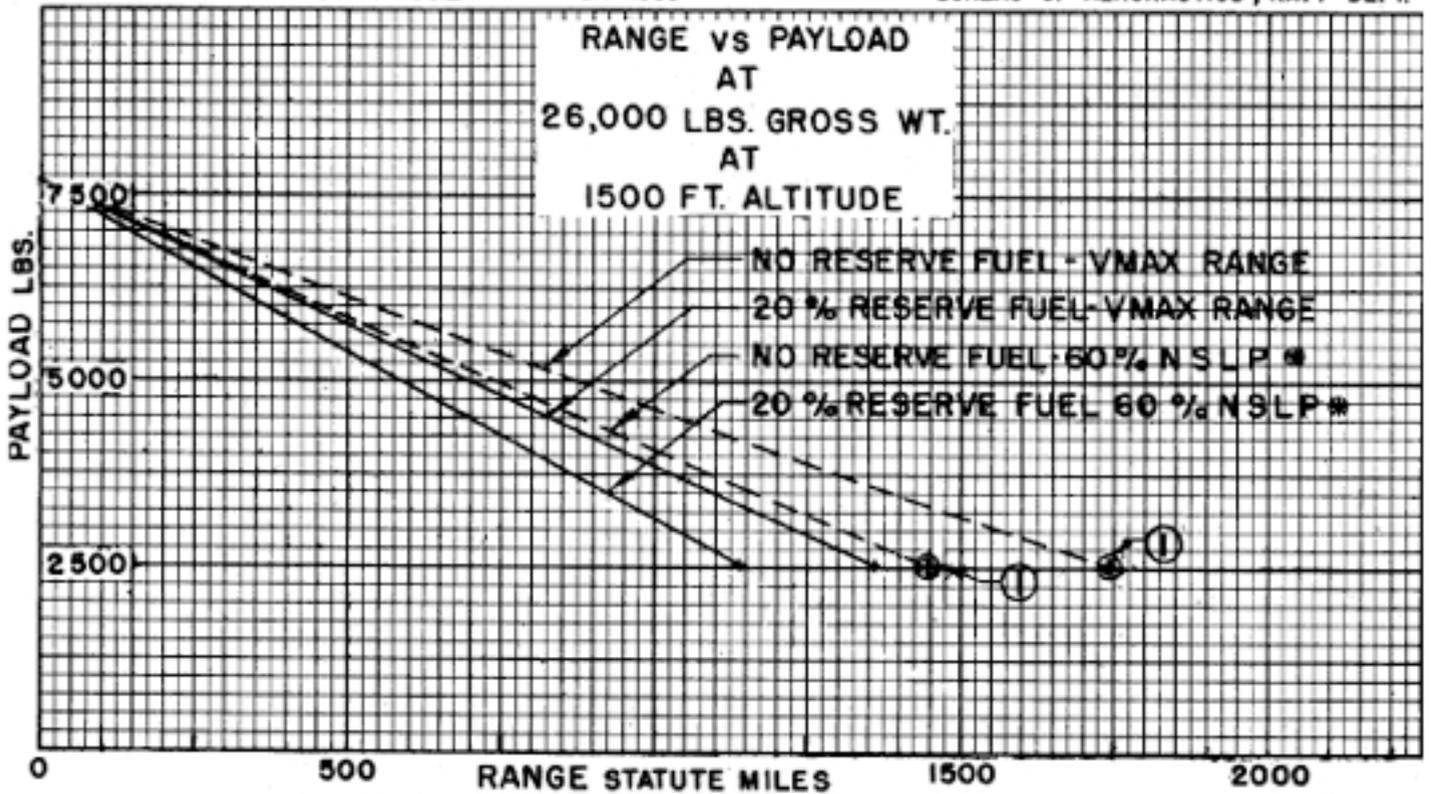


AIRPLANE CHARACTERISTICS & PERFORMANCE

BUREAU OF AERONAUTICS, NAVY DEPT.

COLUMN NUMBER		1	2	3	
LOADING CONDITION		CARGO TRANSPORT	TROUP TRANSPORT 27 Troops at 200#	PASSENGER TRANSPORT 21 Passengers at 200# ea.	
GROSS WEIGHT	LBS.	26000	29000	27917	
EMPTY WEIGHT - CALCULATED -	LBS.	16737		16646	
FUEL/OIL	GALS.	804/45	804/45	804/45	
FIXED USEFUL LOAD	LBS.	1577	1715	1909	
PAYLOAD	LBS.	2524	5400	4200	
ENGINE POWER USED FOR PERFORMANCE		NORMAL	NORMAL	NORMAL	
WING LOADING	LBS./SQ.FT.	26.3	29.3	28.3	
POWER LOADING ①	LBS./BHP.	12.4	13.8	13.3	
V-MAX. SEA LEVEL	MPH.	212	210	211	
V-MAX./CRITICAL ALT.	MPH./FT.	228/7500	226/7500	227/7500	
V-STALL GROSS WEIGHT ②	MPH.	64.0	67.6	66.4	
V-STALL WITHOUT FUEL ②	MPH.	57.8	61.8	60.3	
TIME-TO-CLIMB -10000 FT.-	MIN.	9.0	11.0	10.2	
TIME-TO-CLIMB -20000 FT.-	MIN.	25.5	33.6	30.2	
SERVICE CEILING	FT.	24,400	22,300	23,100	
TAKE-OFF DISTANCE -CALM-	FT.	1026	1360	1235	
TAKE-OFF DISTANCE -15 KN-	FT.	649	886	796	
TAKE-OFF DISTANCE -25 KN-	FT.	444	621	553	
TAKE-OFF DISTANCE -50 FT. OBST	FT.	3526	1932	1782	
TAKE-OFF TIME	SECONDS				
RATE OF CLIMB -SL-	FT./MIN.	1160	970	1030	
MAX. RANGE / V-AV. ③	ST. MI. / MPH.	1735/123	1595/130	1640/127	
RANGE / V-AV. -60%NSP-③-	ST. MI. / MPH.	1440/178	1425/176	1435/177	
SEARCH RADIUS / V-AV. -20%R-	NMI./KN.	Performance includes effect of de-icing equipment. Re-			
A.S.W. RADIUS / V-AV. -20%R-	NMI./KN.	moval of de-icer boots increases V max/S.L. 1.5 mph and			
SCOUT RADIUS	N MI.	max range at 1500 ft. by 2.2%.			
COMBAT RADIUS	N MI.				
ENGINE / PROP. GEAR RATIO		2 - P & W R-1830-92 (16:9)			
ENGINE RATING BHP/RPM/ALT.	NORMAL	Performance is based on Flight Test. Range is based on			
	1050/2550/S.L.-7000	A.E.L. fuel consumption data increased by 15% to conform			
ENGINE RATING BHP/RPM/ALT.	TAKE - OFF	with past experience.			
	1200/2700/S.L.	WRIGHT EMPTY - Includes de-icer boots, troop benches and			
ENGINE RATING BHP/RPM/ALT.		584 lbs. of communication equipment.			
		FIXED USEFUL LOAD - Includes crew, trapped fuel and oil			
TANKAGE IN GALLONS		OIL	FUEL	and equipment.	
AUX. FIXED	PROTECTED			PAYLOAD - Passengers, cargo, and baggage. Performance	
	UNPROTECTED	58	804		with one engine inoperative, propeller feathered, flaps
	TOTAL - FIXED INTERNAL	58	804		and landing gear up is estimated to be.
	DROPPABLE				Gross Weight 26000 lbs.
	DROPPABLE				Rate of Climb - S.L. - T.O. Power - 310 FT/MIN
TOTAL	58	804	Service Ceiling - Normal Power - 10,100 FT.		
NOTE	STATUTE MILES USED-EXCEPT-RADIUS IS		At an overload gross weight of 31,000 lbs., with 804 gals.		
	GIVEN IN NAUTICAL MILES & KNOTS		fuel, 7524 lbs. payload max range at 1500 ft. is 1510 STMI		
	① BHP AT MAX CRIT. ALT		at 133 mph.		
② STALL - WITH POWER		WRIGHT EMPTY for condition 3 does not include 91 pounds of			
③ AT 1500' ALTITUDE		troop benches.			

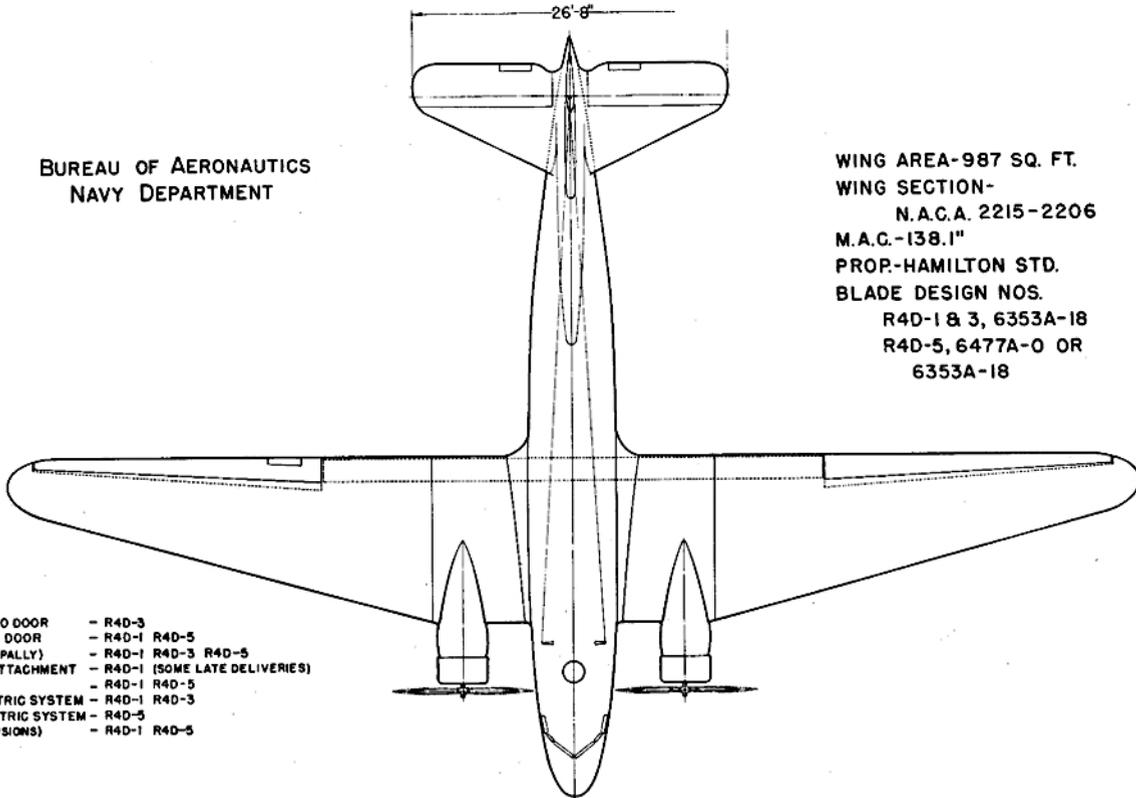


○ LOADING CONDITION COLUMN NUMBER

* NORMAL SEA LEVEL POWER

BUREAU OF AERONAUTICS
NAVY DEPARTMENT

WING AREA-987 SQ. FT.
WING SECTION-
N.A.C.A. 2215-2206
M.A.C.-138.1"
PROP.-HAMILTON STD.
BLADE DESIGN NOS.
R4D-1 & 3, 6353A-18
R4D-5, 6477A-0 OR
6353A-18



- NARROW CARGO DOOR - R4D-3
- WIDE CARGO DOOR - R4D-1 R4D-5
- TROOP (PRINCIPALLY) - R4D-1 R4D-3 R4D-5
- GLIDER TOW ATTACHMENT - R4D-1 (SOME LATE DELIVERIES)
- ASTRODOME - R4D-1 R4D-5
- 12 VOLT ELECTRIC SYSTEM - R4D-1 R4D-3
- 24 VOLT ELECTRIC SYSTEM - R4D-5
- LITTER (PROVISIONS) - R4D-1 R4D-5

