

AIRPLANE CHARACTERISTICS & PERFORMANCE

BUREAU OF AERONAUTICS, NAVY DEPT.

COLUMN NUMBER		1		
LOADING CONDITION		TRANSPORT (CARGO)		
GROSS WEIGHT	LBS.	6420		
EMPTY WEIGHT	-SPECIFICATION- LBS.	4279		
FUEL/OIL	GALS.	100 / 8		
FIXED GUNS/AMMUNITION		NONE		
FLEXIBLE GUNS/AMMUNITION		NONE		
ENGINE POWER USED FOR PERFORMANCE		NORMAL		
DISC LOADING	LBS/SQ.FT.	2.43		
POWER LOADING	LBS/BHP	11.7		
V-MAX. SEA LEVEL	KN	84		
MAX. RATE OF CLIMB -S.L.-	FT./MIN.	565		
BEST CLIMBING SPEED -S.L.-	KN	43.5		
VERT. RATE OF CLIMB -S.L.- (4)	FT./MIN.	100		
TIME-TO-CLIMB -5000 FT.- (2)	MIN.	8.0		
TIME-TO-CLIMB -10000 FT.- (2)	MIN.	16.9		
SERVICE CEILING		FT.	16400	
ABS. HOVERING CEILING - (4)		FT.	500	
MAX. RANGE / V-AV. (3)	NMI/KN	136/70		
MAX. ENDURANCE/ V-AV. (3)	HRS./ KN	2.3/44		

NOTE:

All performance figures are based on standard atmospheric conditions with no wind. Sea level data does not include ground effect. All performance, particularly hovering and climb, are adversely affected by increased temperature and relative humidity. Hovering and climb performance are improved by ground effect (at altitudes less than one rotor diameter above the ground). Hovering and climb performance are also materially improved by light horizontal winds of the order of 5 - 10 mph.

ENGINE/ROTOR GEAR RATIO		P & W R-1340-AN-1 (0.1111)	
ENGINE RATING BHP/RPM/ALT.	NORMAL	TAKE - OFF	
	550 / 2200 / S.L. - 5000	600 / 2250 / S.L.	
	Ratings do not include the deduction of cooling fan power losses.		

TANKAGE IN GALLONS		OIL	FUEL	
AUX. FIXED	PROTECTED			WEIGHT EMPTY - Includes 120 lbs. of communicating equipment.
	UNPROTECTED	8	100	
	TOTAL - FIXED INTERNAL	8	100	
	DROPPABLE			USEFUL LOAD Includes crew of two, equipment, trapped fuel and oil, and 1000# of cargo
	DROPPABLE			
TOTAL		8	100	
NOTE				Performance is based on calculations. Range and Endurance are based on engine requirement fuel consumption data increased 15% to conform with past experience.
	① BHP AT MAX. CRIT. ALT.			
	② AT MAX. R/C			
	③ AT 1500' ALTITUDE			
④ AT TAKE-OFF BHP				

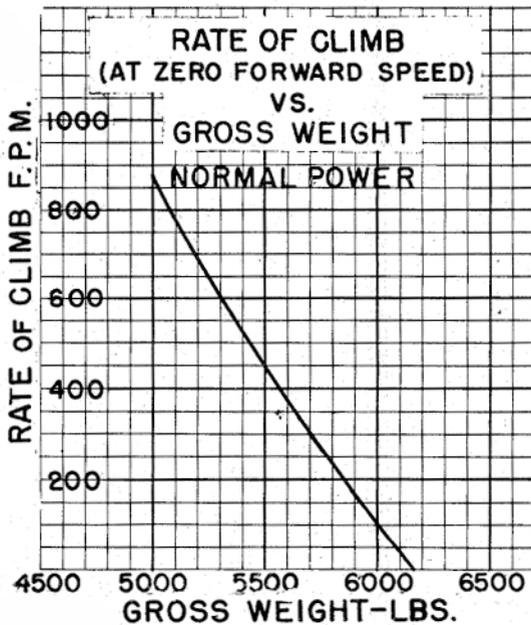
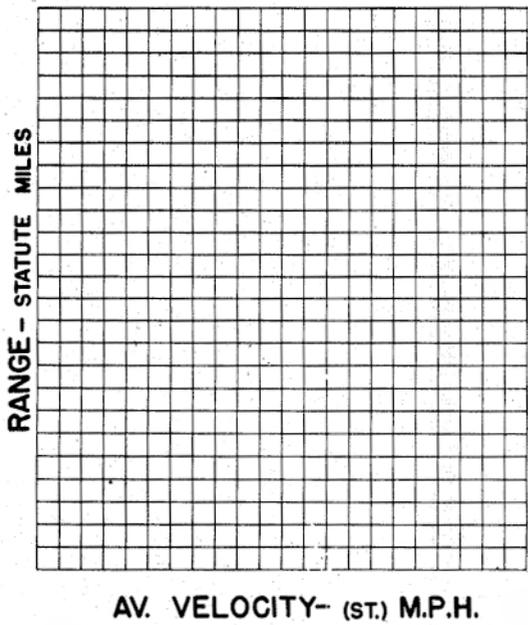
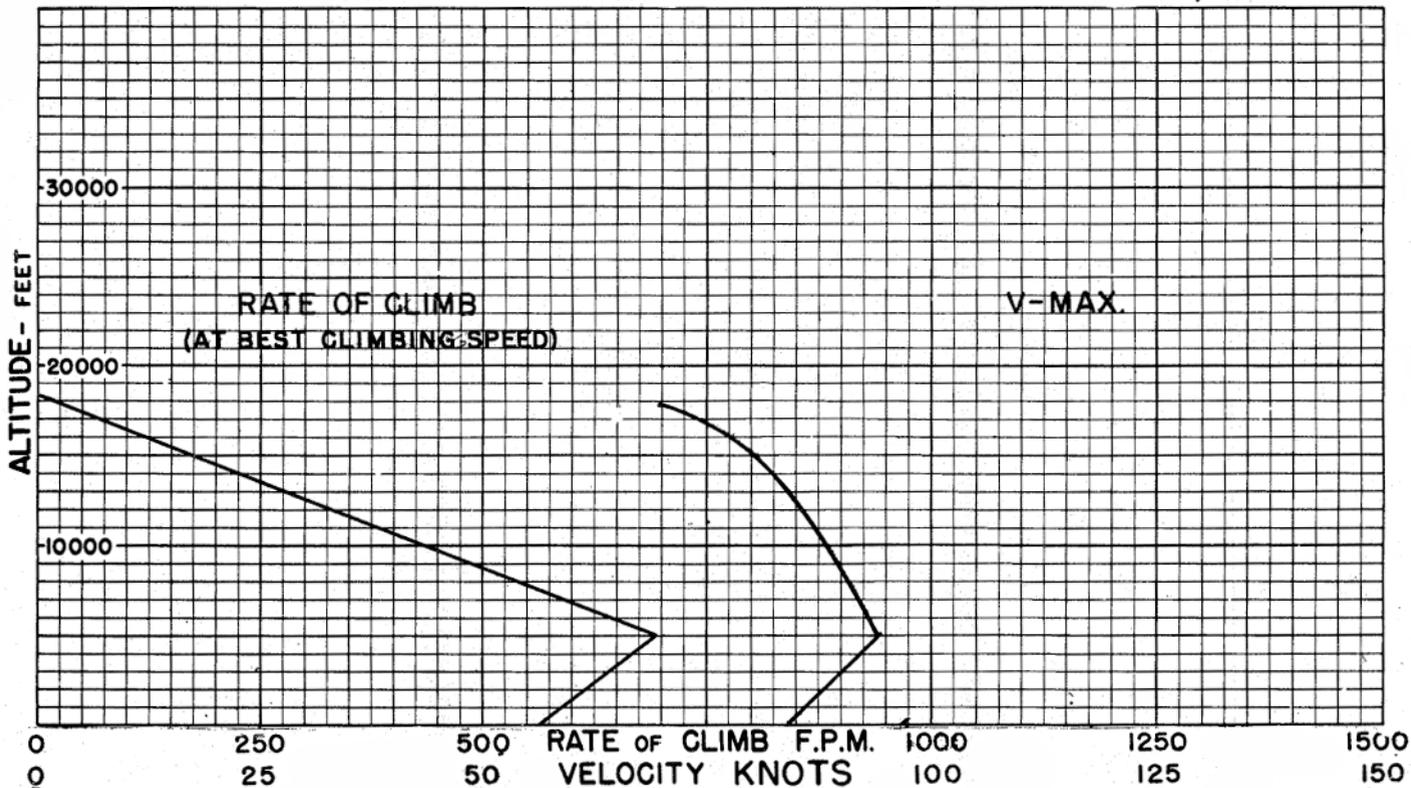
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DATE

1 SEPTEMBER 194

LANDPLANE

MODEL-XHRP-1



○ LOADING CONDITION COLUMN NUMBER

BUREAU OF AERONAUTICS
NAVY DEPARTMENT

ROTOR DATA
DISC AREA - 2640 SQ. FT. (TOT.)
BLADE AREA - 135 SQ. FT. (TOT.)
BLADE SECTION -
N.A.C.A. 0000
GEAR RATIO 9 TO 1

