

ISSUE OF 3 PAGES
AIRPLANE CHARACTERISTICS & PERFORMANCE

BUREAU OF AERONAUTICS, NAVY DEPT.

COLUMN NUMBER			1	2		
LOADING CONDITION			NORMAL	OVERLOAD		
GROSS WEIGHT	LBS.		2186	2275		
EMPTY WEIGHT	LBS.		1613			
FUEL/OIL	GALS.		25/3	36/3		
FIXED GUNS/AMMUNITION			NONE			
FLEXIBLE GUNS/AMMUNITION			NONE			
ENGINE POWER USED FOR PERFORMANCE			NORMAL	NORMAL		
WING LOADING	LBS./SQ.FT.		14.1	14.7		
POWER LOADING ①	LBS./BHP.		11.8	12.3		
V-MAX. SEA LEVEL	KN.		113	112		
V-MAX.	KN/FT.					
V-STALL GROSS WEIGHT ②	KN.		44.8	45.9		
V-STALL WITHOUT FUEL ②	KN.		43.0	43.3		
TIME-TO-CLIMB -10000FT-	MIN.		17.1	20.7		
TIME-TO-CLIMB -20000FT-	MIN.					
SERVICE CEILING	FT.		15200	13200		
TAKE-OFF DISTANCE -CALM-	FT.		475	550		
TAKE-OFF DISTANCE -15 KN-	FT.		240	265		
TAKE-OFF DISTANCE -25 KN-	FT.					
TAKE-OFF DISTANCE -50 FT. OBST.	FT.		740	850		
TAKE-OFF TIME	SECONDS					
RATE OF CLIMB -SL-	FT./MIN.		880	800		
MAX. RANGE / V-AV. ③	N MI./KN.			285/88		
RANGE / V-AV. -80% NSP-③-	N MI./KN.					
SEARCH RADIUS / V-AV. -20% R-	N MI./KN.					
A.S.W. RADIUS/V-AV. -20% R-	N MI./KN.					
SCOUT RADIUS	N MI.			56		
COMBAT RADIUS	N MI.					
ENGINE / PROP GEAR RATIO Lycoming 0-435-1 / D.D.						
ENGINE RATING	BHP/RPM/ALT.	NORMAL		TAKE-OFF		
		185/2550/S.L.		185/2550/S.L.		

TANKAGE IN GALLONS			OIL	FUEL	NOTES
AUX. FIXED	PROTECTED		3	36	Performance based on flight tests of L-5 airplane. Range based on fuel consumption from specification, reduced 15% to conform with past experience.
	UNPROTECTED				
	TOTAL - FIXED INTERNAL		3	36	
	DROPPABLE				
	DROPPABLE				
	TOTAL		3	36	SCOUT RADIUS is 1/3 of range at V for max. range at 1500 ft., allowing for 20 min. warm-up and 1 min. T.O., with reserve of 60 min. at V. for max. range.
NOTE	① BHP AT MAX. CRIT. ALT.				
	② STALL - WITHOUT POWER				
	③ AT S. L. ALTITUDE				

1 JAN. 1948

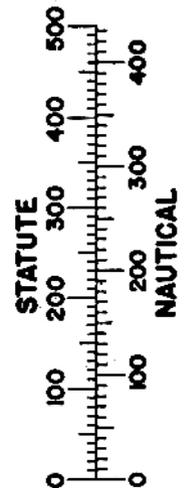
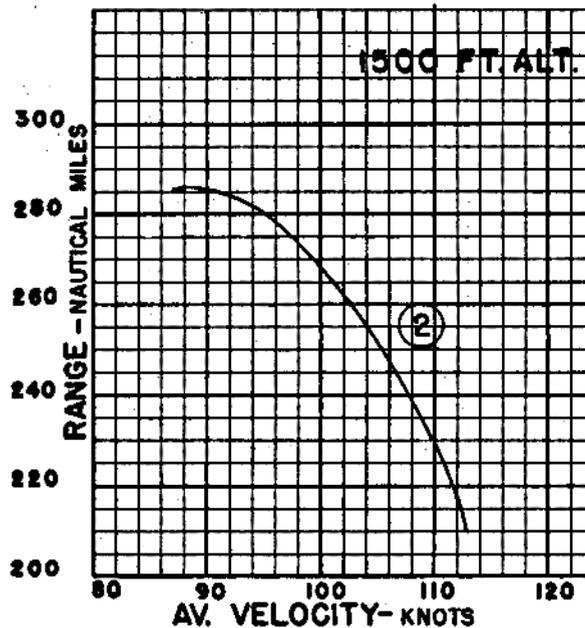
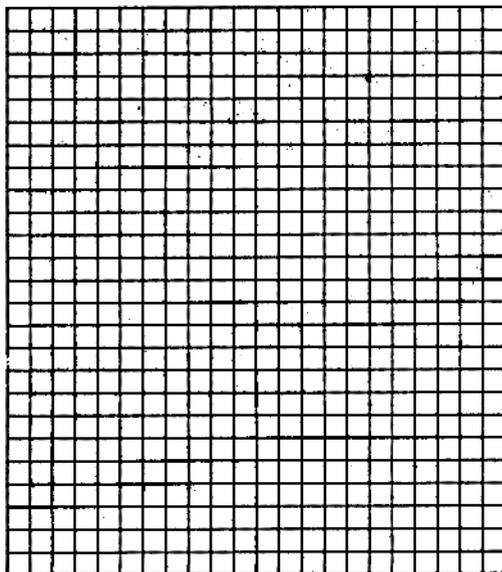
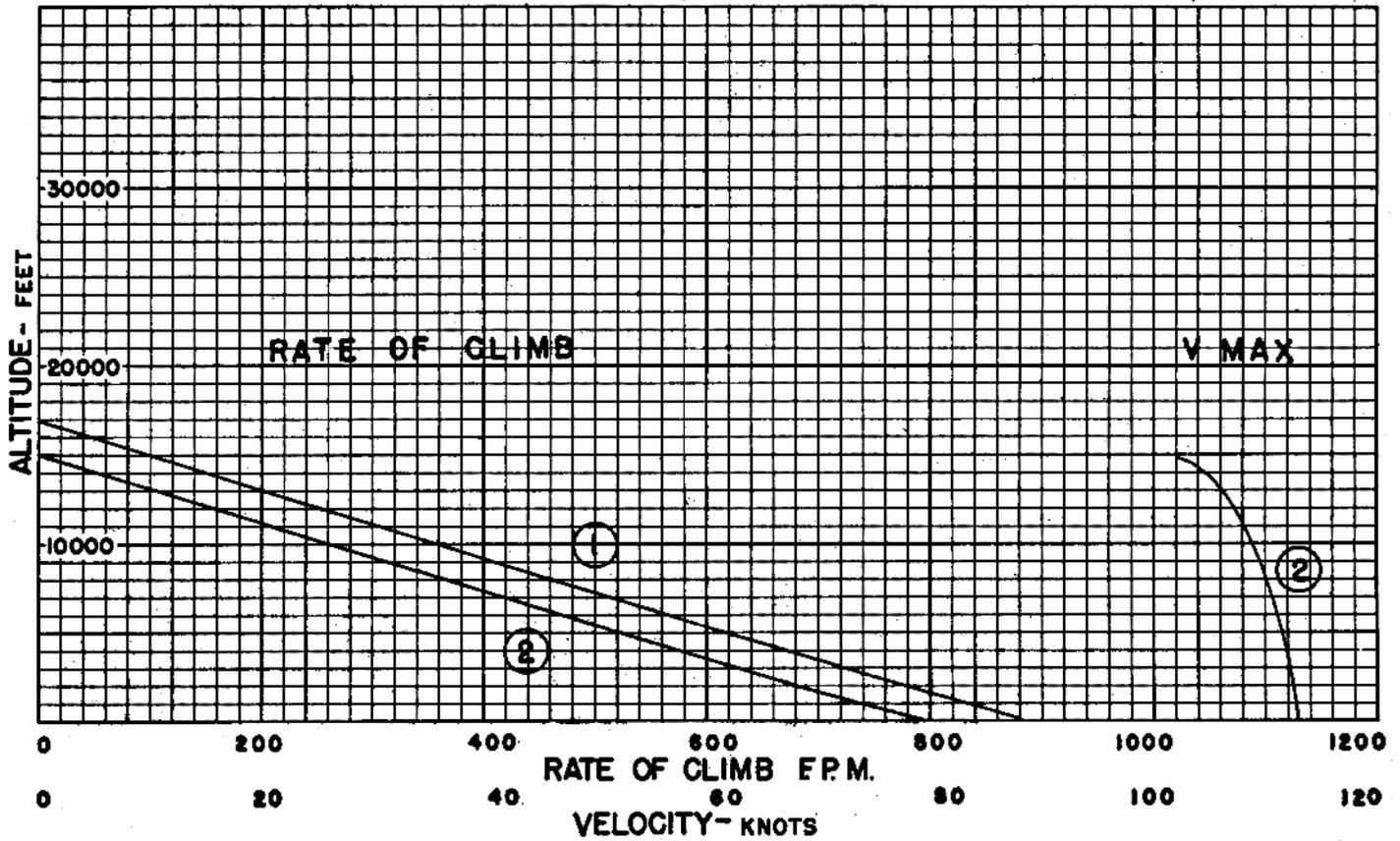
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MODEL-OY-1

AIRPLANE PERFORMANCE

NAVAER-1335B (REV 2-47)

BUREAU OF AERONAUTICS, NAVY DEPT.



○ LOADING CONDITION COLUMN NUMBER

BUREAU OF AERONAUTICS
NAVY DEPARTMENT

WING AREA 155 SQ. FT.
AIRFOIL SECTION N.A.C.A. 4412
MAC 57"
PROP. KOPPERS AUTO. PITCH
BLADE DESIGN P1-85

