

AIRPLANE CHARACTERISTICS & PERFORMANCE

BUREAU OF AERONAUTICS, NAVY DEPT.

COLUMN NUMBER			1	2	3	
LOADING CONDITION			PERSONNEL TRANSPORT 168 @ 170#	CARGO TRANSPORT	CARGO TRANSPORT	
GROSS WEIGHT	LBS.		184000	184000	184000	
EMPTY WEIGHT	LBS.	- ESTIMATED -	113780			
FUEL / OIL	GALS.		3880/217	4280/238	9780/402	
PAYLOAD	LBS.		38146	37866	3638	
FIXED USEFUL LOAD	LBS.		7176	4887		
ENGINE POWER USED FOR PERFORMANCE						
WING LOADING	LBS./SQ. FT.		51	51	51	
POWER LOADING ①	LBS./BHP.		18.4	18.4	18.4	
V-MAX. SEA LEVEL	KN		213	213	213	
V-MAX./CRITICAL ALT.	KN/FT.		266/25000	266/25000	266/25000	
V-STALL GROSS WEIGHT ②	KN		74.4	74.4	74.4	
V-STALL WITHOUT FUEL ②	KN		69.5	69.0	61.4	
TIME-TO-CLIMB -10000 FT-	MIN.		16.4	16.4	16.4	
TIME-TO-CLIMB -20000 FT-	MIN.		34.9	34.9	34.9	
SERVICE CEILING	FT.		28600	28600	28600	
TAKE-OFF DISTANCE -CALM-	FT.					
TAKE-OFF DISTANCE -15 KN-	FT.					
TAKE-OFF DISTANCE -25 KN-	FT.					
TAKE-OFF DISTANCE -50 FT. OBST.	FT.		4120	4120	4120	
TAKE-OFF TIME	SECONDS					
RATE OF CLIMB -SL-	FT./MIN.		640	640	640	
MAX. RANGE / V-AV. ③	NMI./KN		1350/211	1525/210	4315/200	
RANGE / V-AV. -60% NSLP-③-	NMI./KN		1350/211	1525/211	4090/220	
SEARCH RADIUS / V-AV. -20% R-	NMI./KN.					
A.S.W. RADIUS / V-AV. -20% R-	NMI./KN.					
SCOUT RADIUS	N MI.					
MAX RANGE @ 1500'	NMI./KN.		1650/147	1830/147	4680/140	
ENGINE / PROP GEAR RATIO			4 P. & W. R-4360-18 (.381) Turbo			
ENGINE RATING BHP/RPM/ALT.	NORMAL		Performance with one engine inoperative (flaps and landing gear up, propeller feathered) is estimated to be:			
	2500/2550/S.L. - 25000'					
	TAKE-OFF		G.W.		184000#	
	3000/2700		Service Ceiling-Normal Power		16000 FT.	
		R/C - SL - T.O. Power		460 FT/MIN		
TANKAGE IN GALLONS			OIL	FUEL	At a maximum landing G.W. of 160,000# performance is estimated to be -	
AUX. FIXED	PROTECTED				Vs (Power off) - 73.8 kn	
	UNPROTECTED		202	9780	R/C-S.L. - Norm. Power 875 ft./min.	
	TOTAL - FIXED INTERNAL		202	9780	T.O. dist. - 50 ft. obst. 2890 ft.	
	DROPPABLE				Fixed Useful Load - Crew, Trapped Fuel & Oil and equipment (includes removable seats for cond. 1)	
	DROPPABLE				Payload - Passengers, baggage and cargo	
	FUSELAGE - UNPROTECTED - FIXED		200		Weight Empty - Includes 950# radio equipment	
TOTAL		402	9780			
NOTE	① BHP AT MAX. CRIT. ALT.		Performance is based on calculations - Range is based on			
	② STALL - WITH POWER		Eng. Req. with fuel consumption increase 15% to conform			
	③ AT 25000' ALTITUDE		with past experience.			

Reissued 1 January 1947

RESTRICTED

DATE 1 February 1945

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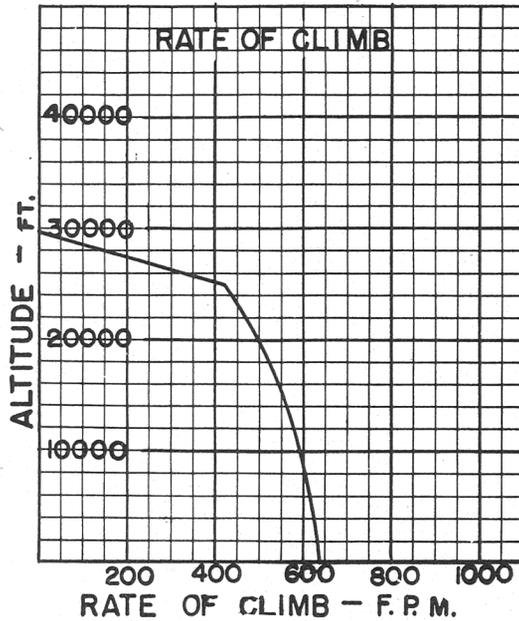
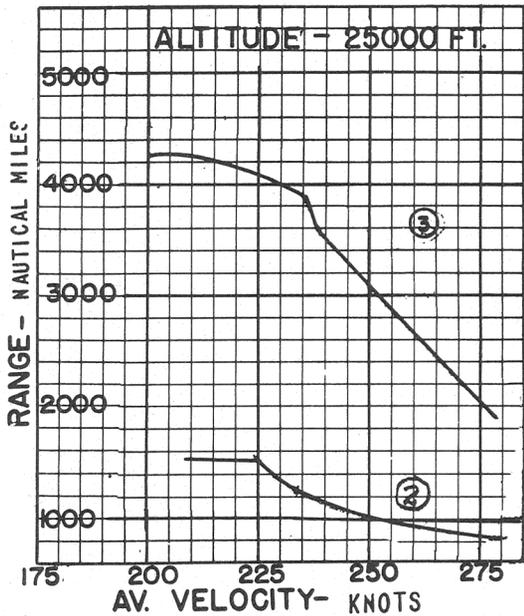
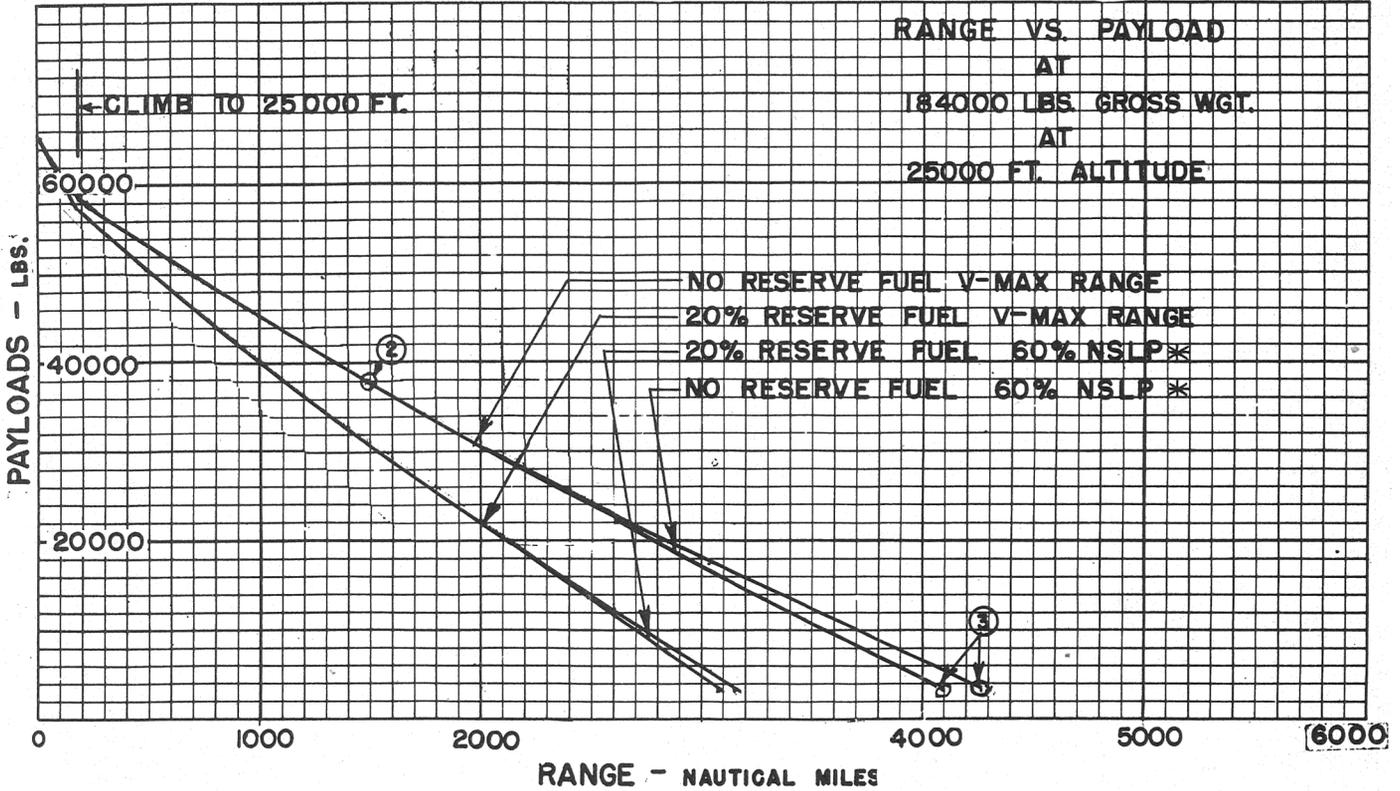
MODEL XR60-1

6852

AIRPLANE PERFORMANCE

NAVAER-1335B

BUREAU OF AERONAUTICS, NAVY DEPT.



○ LOADING CONDITION COLUMN NUMBER

* NORMAL SEA LEVEL POWER

BUREAU OF AERONAUTICS
NAVY DEPARTMENT

WING AREA - 3610 SQ. FT.
WING SECTION -
LOCKHEED D-20 TO D-12
M.A.C. - 253"
PROP. - HAMILTON STD.
BLADE DESIGN NO. 4C20B1-12

