

AIRPLANE CHARACTERISTICS & PERFORMANCE

COLUMN NUMBER		1	2	3	4
LOADING- CONDITION		CARGO TRANSPORT	CARGO TRANSPORT	CARGO TRANSPORT See Note p. #2	PERSONNEL TRANSPORT 160 PASSENGERS
GROSS WEIGHT	LBS.	184000	184000	160000	184000
EMPTY WEIGHT	-ESTIMATED- LBS.	114650			
FUEL / OIL	GALS.	9780/402	4312/240	4312/240	4224/235
PAYLOAD	LBS.	2980	37000	13000	35280
FIXED USEFUL LOAD	LBS.	4677	4677	4677	6966
ENGINE POWER USED FOR PERFORMANCE		NORMAL	NORMAL	NORMAL	NORMAL
WING LOADING	LBS./SQ.FT.	51.0	51.0	45.4	51.0
POWER LOADING ①	LBS./BHP.	18.4	18.4	16.0	18.5
V-MAX. SEA LEVEL	MPH.	246	246	250	246
V-MAX. AIRPLANE CRIT. ALT.	MPH.	305/25000	305/25000	315/25000	305/25000
V-STALL GROSS WEIGHT ②	MPH.	86.3	86.3	80.4	86.3
V-STALL WITHOUT FUEL ②	MPH.	71.2	80.0	73.4	80.1
TIME-TO-CLIMB -10000FT-	MIN.	16.8	16.8	11.7	16.5
TIME-TO-CLIMB -20000FT-	MIN.	37.0	37.0	24.9	37.0
SERVICE CEILING	FT.	27800	27800	30500	27800
TAKE-OFF OVER 50 FT. OBSTACLE	FT.	4120	4120	2910	4120
TAKE-OFF DISTANCE -15 KN-	FT.				
TAKE-OFF DISTANCE -25 KN-	FT.				
TAKE-OFF TIME	SECONDS				
RATE OF CLIMB -SL-	FT./MIN.	640	640	880	640
MAX. RANGE / V-AV ③	STMI/MPH.	5000/231	1780/238*	2280/230	1725/239
RANGE / V-AV ③ 60% NSP - ST.	MI/M.PH.	4750/253*	1780/238*	2160/259	1725/238*
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-4360-18 (.381) Turbo

ENGINE RATING BHP/RPM/ALT.	NORMAL		TAKE-OFF
		2500/2550/SL-25000	3000/2700

TANKAGE IN GALLONS

OIL

FUEL

AUX. FIXED		OIL	FUEL
PROTECTED			
UNPROTECTED	402		9780
TOTAL - FIXED INTERNAL	402		9780
DROPPABLE			
DROPPABLE			
TOTAL	402		9780

PAYLOAD: -Passengers, Cargo, Baggage.

FIXED USEFUL LOAD: - Crew, equipment, trapped fuel and oil

STATUTE MILES USED-EXCEPT-RADIUS IS GIVEN IN NAUTICAL MILES & KNOTS

* See note page 2 "Range vs Payload"

- NOTE
- ① BHP AT MAX. CRIT. ALT.
 - ② STALL-WITH POWER
 - ③ AT 25000' ALTITUDE (no res. fuel)

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PRELIMINARY

AIRPLANE CHARACTERISTICS & PERFORMANCE

BUREAU OF AERONAUTICS, NAVY DEPT.

Performance is based on Calculations. Range is based on Engine Requirement fuel consumption data; auto-lean SFC increased by 15%, autorich SFC not increased.

THREE ENGINE PERFORMANCE:

Performance with one engine inoperative (flaps and landing gear up and propeller feathered) is as follows:

Gross Weight	184,000#
Rate of Climb- S.L.- T.O. power-	460 fpm
Service Ceiling- Norm. power-	15000ft

RANGE vs. PAYLOAD CURVES: (page 3)

With 184000# take-off gross weight, more than 60% normal sea-level power is required for the first 1300 miles range (requires 20000# of fuel). Only the payload curve at V for max range is shown for the first 1300 miles while the payload curve at 60% nsp represent a range with the first 1300 miles flown at V for max range (in excess of 60% nsp) and the remainder of the range at 60% nsp. Range at 60% nsp data on page 1 is computed on this basis.

CHARACTERISTICS:

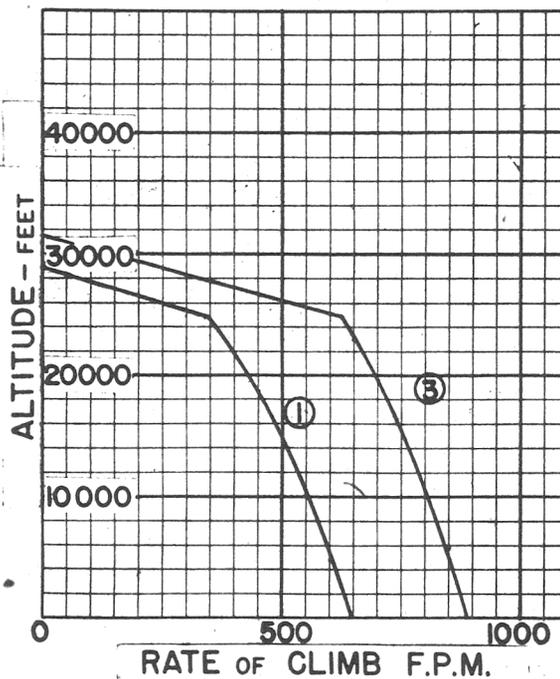
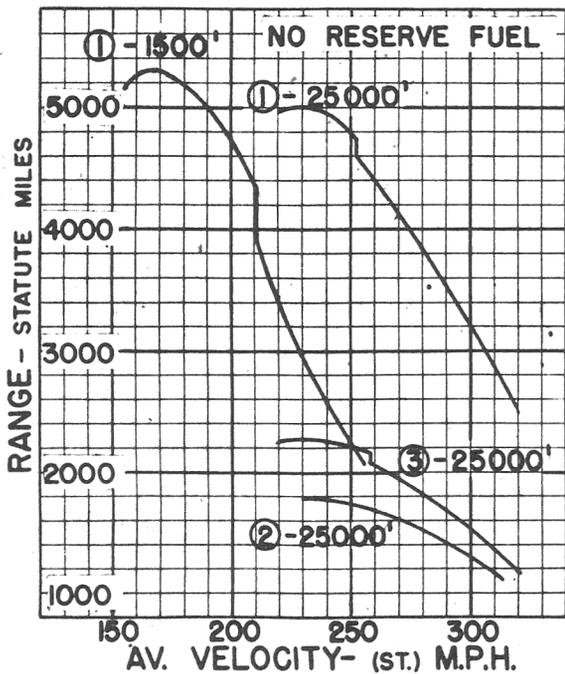
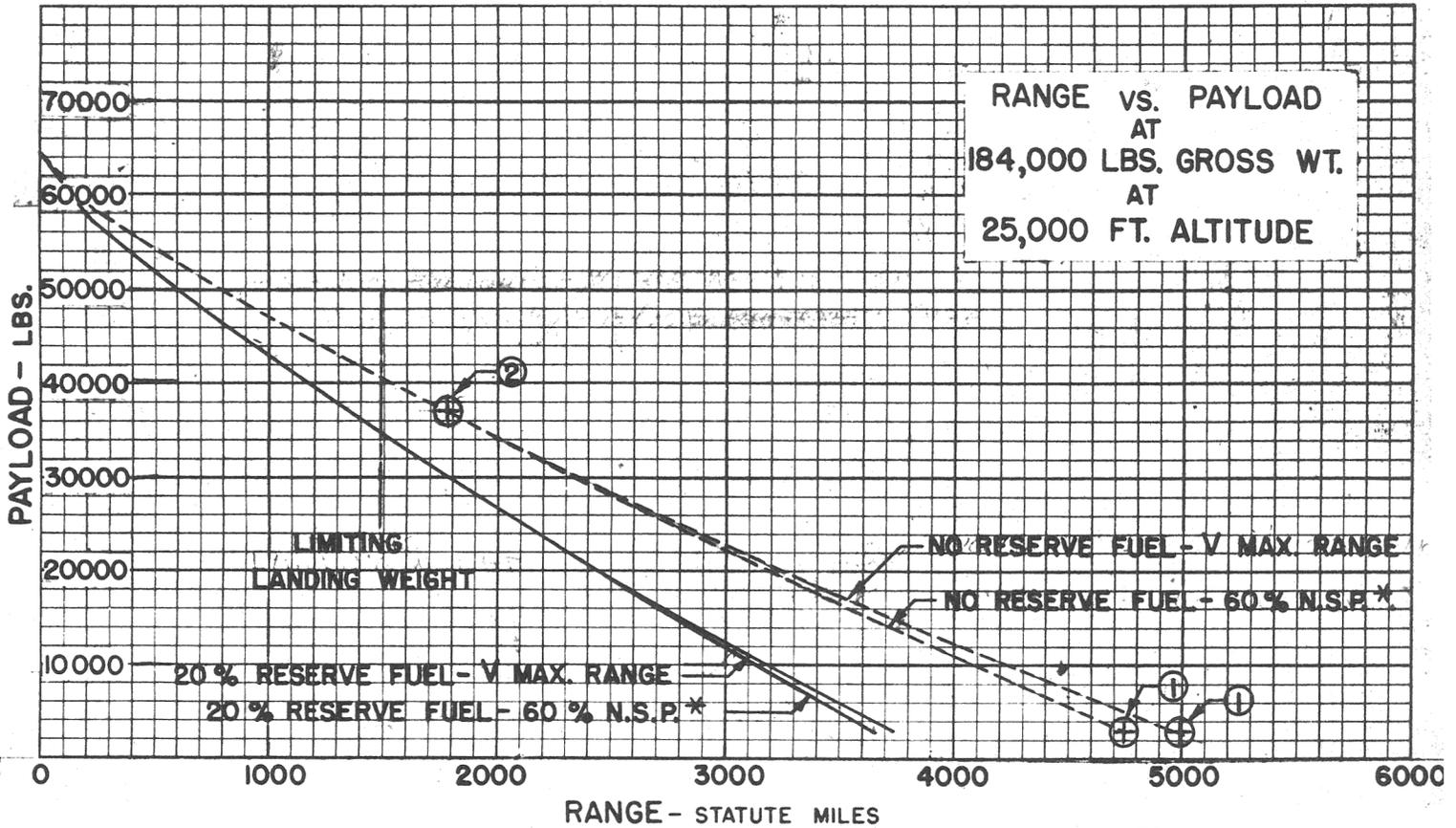
Span-----	189'-1"
Length-----	156'-1"
Height-----	50'-4"
Wing Area-----	3610 sq. ft.
Section-----	Lockheed D-20 to D-12
M. A. C.-----	253"
Propeller-----	Ham. Std. Super-Hydromatic
Prop. Dia./No. blades-----	19'-0"/4
Blade Design-----	4C20A1-12

CONDITION #3:

The condition shows the airplane performance at the CAA limiting landing weight of 160,000 #.

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○ LOADING CONDITION COLUMN NUMBER
 * NORMAL SEA LEVEL POWER

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1 JULY 1944

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MODEL-XR60-1