

GRASSHOPPER

39

BU. OF AERO., NAVY DEPT.
PERFORMANCE DATA

MODEL NE-1

~~CONFIDENTIAL~~
JULY 1942

	TRAINER					
GROSS WEIGHT LBS.	1172					
WEIGHT EMPTY "	709					
FUEL GALS.	12					
GUNS/RDS. AMM.	NONE					
" " "	NONE					
WING LOADING	6.6					
POWER LOADING	18.0					
ENGINE	CONT. 0-170-3 (D.D.)					
ENGINE RATING (BHP/RPM/ALT)	NORMAL		MILITARY			
	65/2300/SL					
ENG. RATS FOR PERF.	NORMAL					
VM-SEA LEVEL MPH	84					
- 5000 (NORM.) "	81					
- " "						
- " "						
- " "						
- " "						
- " "						
- " "						
CLIMB-S.L. FT/MIN	400					
- " "						
TIME-10000' MIN						
-20000' "						
SERVICE CEIL. FT	9300					
VS-GR. WEIGHT MPH	41.1					
-LESS FUEL "	39.8					
END/80% VM	4.0					
/75 " 1500	3.1					
/80 " "						
/VM	1.9					
MAX END/VAV*	4.2					
" RANGE/VAV* MI/MPH	210/56					
TAKE-OFF-CALM FT.	290					
(LAND)-15 KN. "	104					
-25 KN. "	30					
TAKE-OFF (SEA) SEC.						

*AT 1500 FT.

REMARKS

DATA FROM CHART OF JULY 1942 - Range and Endurance figures recomputed incorporating a suitable increase in S.F.C. to conform with past experience.

DECLASSIFIED IN ACCORDANCE WITH E. O. 11652
CONFIDENTIAL

SHEET 1 OF 2

MODEL NE-1

JULY 1942

MODEL NE-1

GENERAL

GROSS WEIGHT _____ LBS. C.G. _____ % M.A.C. C.G. FROM T. L. _____ INS.
MAX. CENTER OF GRAVITY RANGE _____ TO _____ % M.A.C.

SPAN _____ 35'-3" HEIGHT, LEVEL _____ 6'-8"
" , FOLDED _____ " , ON WHEELS _____ 6'-0"
LENGTH, LEVEL _____ 22'-5" " , " " , FOLDED _____
" , ON WHEELS _____ " , HOIST. ATTITUDE _____

WING AREA _____ 178.5 SQ. FT. M.A.C. _____ 5'-1.5" INS.
WING SECTION _____ USA 35B

DISP, MAIN FLOAT _____ LBS. DISP, AUX. FLOAT _____ LBS.
BEAM, MN. FL., HULL _____

PROPELLER

TYPE _____ FIXED PITCH NO. OF BLADES _____ 2
DIAMETER _____ 6'-0" BLADE DES. NO. _____ 72C42

FUEL TANKAGE

FIXED TANKS (PROTECTED) _____ GALS. TOTAL, FIXED TANKS _____ 12 GALS.
" (UNPROTECT) _____ 12 GALS. " , " (PROT. REMOVED) _____ GALS.
AUX. TANKS, DROPPABLE _____

OIL TANKAGE

TOTAL (PROTECT., UNPROTECT.) _____ GALS. TOTAL (PROT. REMOVED) _____ GALS.

PROV. FOR BOMBS, ETC.

NONE

REMARKS