

DECLASSIFIED

CONFIDENTIAL
11-11-42

BU. OF AERO., NAVY DEPT.
PERFORMANCE DATA

MODEL SBN-1 LAND.

	SCOUT	BOMBER 1-500#				
GROSS WEIGHT LBS.	6245	6759				
WEIGHT EMPTY "		4503				
FUEL GALS.	136	136				
FX. GUNS/RDS. AMM.	1-.50/200					
FLX. " " "	1-.30/600					
WING LOADING	24.1	26.1				
POWER LOADING	8.3	9.0				
ENGINE	R-1820-38 (D.D.)					
ENGINE RATING (BHP/RPM/ALT.)	NORMAL			MILITARY		
	850/2100/S.L.-6000			None		
	750/2100/9800-15200					
	950/2200/T.O.					
ENG. RATS FOR PERF.						
VM-SEA LEVEL MPH	231	226				
- 6000 "	245	240				
- 9800 "	244					
- 15200 "	254	248				
- 20000 "	243					
- 25000 "	223					
- " "						
- " "						
- " "						
CLIMB-S.L. FT/MIN	1970	1730				
- 15200' "	1500	1290				
TIME-10000' MIN	5.4	6.0				
- 20000' "	12.9	14.8				
SERVICE CEIL. FT	28300	26800				
VS-GR. WEIGHT MPH	68.0	70.7				
-LESS FUEL "	63.4	66.3				
END/60% VM	HR/MPH	6.9/152	6.5/149			
/75 "	"	4.8/190	4.6/186			
/90 "	"	2.3/228	2.3/223			
/VM	"	1.5/254	1.5/248			
MAX END/VAV*	HR/MPH	9.2/ -	8.2/ -			
" RANGE/VAV*	MI/MPH	1110/113	1015/117			
TAKE-OFF: CALM FT.	536	654				
(LAND) -15 KN. "	330	410				
-25 KN. "	220	280				
TAKE-OFF (SEA) SEC.	---	---				

*AT 6000 FT.

REMARKS _____

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GENERAL

GROSS WEIGHT 6166 LBS. C.G. 27.1 % M.A.C. C.G. FROM T. L. 42.0 INS.
MAX. CENTER OF GRAVITY RANGE _____ TO _____ % M.A.C.

SPAN 39'-0" HEIGHT, LEVEL 12'-5"
" , FOLDED --- " , ON WHEELS ---
LENGTH, LEVEL 27'-8" " , " " , FOLDED ---
" , ON WHEELS _____ " , HOIST. ATTITUDE _____

WING AREA 259 SQ. FT. M.A.C. 83.3 INS.
WING SECTION NACA CYH

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

PROPELLER

TYPE Ham. Std. C.S. NO. OF BLADES 3
DIAMETER 9'-1" BLADE DES. NO. 6101

FUEL TANKAGE

FIXED TANKS (PROTECTED) --- GALS. TOTAL, FIXED TANKS --- GALS.
" " (UNPROTECT) 136 GALS. " , " (PROT. REMOVED) --- GALS.
AUX. TANKS, DROPPABLE None

OIL TANKAGE

TOTAL (PROTECT, UNPROTECT) 10 GALS. TOTAL (PROT. REMOVED) --- GALS.

PROV. FOR BOMBS, ETC.

Bomb Bay - Bomb: 1-500#. Depth Bomb: 1-325#.
Wings - Bombs: 2-100#. Depth Bombs: 2-325#.
Alternate fixed gun: 1-.30/500 rds.

REMARKS Center of gravity are based on Report No. 2143, and .30 cal. fixed gun installation.

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