

CONFIDENTIAL
II-30-42BU. OF AERO., NAVY DEPT.
PERFORMANCE DATA

MODEL SBD-2 LAND.

	BOMBER 1-500	BOMBER 1-500	BOMBER 1-1000	BOMBER 1-1600	SCOUT	FERRY
GROSS WEIGHT LBS	8908	9613	10113	10360	9061	9057
WEIGHT EMPTY "			6293			5751
FUEL GALS.	150	260	260	205	260	310
FX. GUNS/RDS. AMM.			2-.50/360			None
FLX. " " "			1-.30/600			
WING LOADING	27.3	29.5	31.1	31.9	27.8	27.8
POWER LOADING	11.1	12.0	12.6	12.9	11.3	11.3
ENGINE	R-1820-32(16:11)					
ENGINE RATING (BHP/RPM/ALT.)	NORMAL			MILITARY		
	950/2300/S.L.-5000			None		
	800/2300/9600-16000					
	1000/2350/T.O.					
ENG. RAT'S FOR PERF.						
VM-SEA LEVEL MPH	230	228	226	225	232	232
- 5000' "	242	240	238	237	244	244
- 9600' "	235					
-16000' "	251	248	244	244	252	252
-18000' "	246					
-22000' "	231					
-26000' "	201					
- " "						
- " "						
CLIMB-S.L. FT/MIN	1130	930	800	740	1080	1080
-16000' "	750	580	480	420	710	710
TIME-10000' MIN	9.8	11.8	13.9	15.1	10.2	10.2
-20000' "	24.2	30.5	36.1	39.3	24.8	24.8
SERVICE CEIL. FT	26200	24700	23700	23200	26000	26000
VS-GR. WEIGHT MPH	74.8	77.8	79.7	80.7	75.5	75.5
-LESS FUEL "	71.0	71.2	73.4	75.8	68.7	67.3
END/60% VM	5.0/150	8.1/149	7.6/146	5.9/146	8.6/151	10.5/151
/75 "	4.1/188	7.0/186	6.7/183	5.1/183	7.1/189	8.2/189
/90 "	2.9/226	4.9/223	4.9/220	3.8/220	5.0/227	5.7/227
/VM	1.2/251	2.0/248	2.0/244	1.6/244	2.0/252	2.4/252
MAX END/VAV ⁺	6.0	9.9	9.0	6.9	10.8	13.4
" RANGE/VAV ⁺	775/149	1290/152	1225/154	930/156	1370/148	1615/147
TAKE-OFF-CALM FT.	820	1000	1145	1230	856	855
(LAND)-15 KN. "	515	640	750	810	541	540
-25 KN. "	350	445	525	575	369	368
TAKE-OFF (SEA) SEC.						

*AT 5000 FT.

REMARKS

IFF equipment in all loadings.

RE-ISSUED FROM ORIGINAL DATE - Range and Endurance figures recomputed
incorporating a suitable increase in S.F.C. to conform with past experience

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SHEET 1 OF 2

MODEL SBD-2 LAND

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BU. OF AERO., NAVY DEPT.
GENERAL DATA11-30-42MODEL SBD-2 LAND.

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 _____ 41'-7" HEIGHT, LEVEL _____ 13'-7"
" , FOLDED _____ " , ON WHEELS _____ 9'-9"
LENGTH, LEVEL _____ 32'-2" " , " " , FOLDED _____
" , ON WHEELS _____ " , HOIST. ATTITUDE _____ 11'-11"WING AREA _____ 325 _____ SQ. FT. M.A.C. _____ 100 _____ INS.
WING SECTION _____ NACA 2415 to 2409DISP, MAIN FLOAT _____ --- LBS. DISP, AUX. FLOAT _____ --- LBS.
BEAM, MN. FL., HULL _____ ---

PROPELLER

TYPE _____ Ham. Std. C.S. NO. OF BLADES _____ 3
DIAMETER _____ 10'-10" BLADE DES. NO. _____ 6103

FUEL TANKAGE

FIXED TANKS (PROTECTED) _____ 260 GALS. TOTAL, FIXED TANKS _____ 260 GALS.
" " (UNPROTECT) _____ None GALS. " , " (PROT. REMOVED) _____ 310 GALS.
AUX. TANKS, DROPPABLE _____ None

OIL TANKAGE

TOTAL (PROTECT., ~~UNPROTECT.~~) _____ 16 GALS. TOTAL (PROT. REMOVED) _____ 19.5 GALS.

PROV. FOR BOMBS, ETC.

Fuselage - Bombs: 1-500#, 1-1000# or 1-1600#. Depth Bombs: 1-325#.
Wings - Bombs: 2-100#. Depth Bombs: 2-325#.REMARKS Ferry Weight Empty: original unprotected fuel and oil tanks
installed; removable armor, except pilot's seat, removed.