

CONFIDENTIAL
10-12-42

BU. OF AERO., NAVY DEPT.
PERFORMANCE DATA

MODEL PB0-1 LAND.

	(F) (A)	PATROL	PATROL (1)	A.S. PATROL 4 D.Bombs			
GROSS WEIGHT	LBS	18837	19230	20203			
WEIGHT EMPTY	"	12680					
FUEL	GALS.	644	644	644			
FX. GUNS/RDS.	AMM.	2-.30/1000					
FLX.	" "	1-.30/1300	3-.30/3300	1-.30/1000			
WING LOADING		34.2	34.9	36.7			
POWER LOADING		10.5	10.7	11.3			
ENGINE		2 R-1820-40 (3:2)					
ENGINE RATING (BHP/RPM/ALT.)		NORMAL			MILITARY		
		1000/2300/SL-4500			None		
		900/2300/14,000					
		1200/2500/T.O.					
ENG. RAT'S FOR PERF.							
VM-SEA LEVEL	MPH	237	232	236			
- 4500'	"	249	243	248			
- 7300'	"	246					
-14000'	"	263	257	262			
-15300'	"	267	261	266			
-20000'	"	256					
-25000'	"	226					
-	"						
-	"						
CLIMB-S.L.	FT/MIN	1450	1320	1290			
	"						
TIME-10000'	MIN	7.5	8.1	8.5			
-20000'	"	17.8	19.1	20.7			
SERVICE CEIL.	FT	26200	25500	24900			
VS-GR. WEIGHT	MPH	69.4	70.2	71.8			
-LESS FUEL	"	61.9	62.8	64.6			
END/60% VM	10000 FT HR/MPH	12.2	11.7	11.2			
/75 "		"	8.6	8.4	8.1		
/90 "		"	4.2	4.1	4.0		
/VM		"	3.1	3.1	3.1		
MAX END/VAV*	HR/MPH	14.6/119	14.0/118	13.3/123			
" RANGE/VAV*	MI/MPH	1930/144	1830/142	1790/146			
TAKE-OFF: CALM	FT.	550	590	670			
(LAND) -15 KN.	"	300	320	380			
-25 KN.	"	170	190	220			
TAKE-OFF (SEA)	SEC.	-	-	-			

*AT 4500 FT.

REMARKS

IFF equipment and ASV in all loadings. Take-off runs with normal A. A. F. technique are approximately twice as long as those listed above.

(1) Turret is only included in this loading.

BU. OF AERO., NAVY DEPT.
GENERAL DATA

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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 _____ 65'-6" _____ HEIGHT, LEVEL _____ 16'-10"
" , FOLDED _____ " , ON WHEELS _____
LENGTH, LEVEL _____ 44'-4" _____ " , " " , FOLDED _____
" , ON WHEELS _____ " , HOIST. ATTITUDE _____

WING AREA _____ 551 _____ SQ. FT. M.A.C. _____ 115.9 _____ INS.
WING SECTION NACA 23018 to 2309

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

PROPELLER

TYPE _____ Ham. Std. C. S. _____ NO. OF BLADES _____ 3
DIAMETER _____ 10'-7" _____ BLADE DES. NO. _____ 6179

FUEL TANKAGE

FIXED TANKS (PROTECTED) _____ 644 _____ GALS. TOTAL, FIXED TANKS _____ 644 _____ GALS.
" " (UNPROTECT) _____ None _____ GALS. " , " (PROT. REMOVED) _____ --- _____ GALS.
AUX. TANKS, ~~ENGINE~~ Fuselage - 134 Gals.
Bomb Bay - 250 Gals.

OIL TANKAGE

TOTAL (PROTECT., UNPROTECT.) _____ 36 _____ GALS. TOTAL (PROT. REMOVED) _____ -- _____ GALS.

PROV. FOR BOMBS, ETC.

_____ 4 - 325# D.B.

REMARKS

Ferry Weight Empty: Removable armor and miscellaneous equipment removed.

