

DECLASSIFIED

PERFORMANCE DATA

DATE 8-14-42

1.

LOADING	FIGHTER	FIGHTER	FIGHTER	BOMBER 2-100	FERRY
GROSS WEIGHT (LBS.)	7556	7556	8361	7809	7350
WEIGHT EMPTY "		5381			5228
FUEL (GALS.)	144	144	260	144	260
FIXED GUNS		4-.50			None
AMMUNITION (RDS.)		1800			
FLEXIBLE GUNS		None			
AMMUNITION (RDS.)					
WING LOADING	29.1	29.1	32.2	30.0	28.3
POWER LOADING	7.6	7.6	8.4	7.8	7.4
ENGINE	R-1830-86 (3:2)				
RATING-NORMAL (BHP/RPM/ALT.)	1100/2550/SL-2500		1050/2550/12000		
RATING-MILITARY (BHP/RPM/ALT.)	1000/2550/19000		1200/2900/T.O.		
RATING-MILITARY (BHP/RPM/ALT.)	1200/2700/SL-1800		1150/2700/11500		
RATING-MILITARY (BHP/RPM/ALT.)	1000/2550/19000				
PROPELLER	Curtiss C.S. 3 Bl. 9'-9" Bl. Des. No. 512				
ENGINE RATING FOR PERF.	Military	Normal	Normal	Normal	Normal
V <sub>M</sub> - SEA LEVEL (MPH)	290	280	258	272	260
" - 2500 (Norm.) "	295/1800	288	264	280	266
" - 4200 " "	294/3100	287			
" - 12000 " "	316/11500	310	283	298	285
" - 13300 " "	311/15100	307			
" - 19000 " "	323	323	295	312	298
" - 21100* " "	329/21100*	329	297/19500*	319	300/19500*
CLIMB-SEA LEVEL (FT/MIN)	2450	2460	1810	2350	2220
TIME-10000 FT. (MIN.)	4.6	4.9	6.7	5.3	5.6
" - 20000 FT. "	10.3	10.6	16.3	11.5	12.6
SERVICE CEILING (FT.)	36400	36400	30200	35900	32300
V <sub>S</sub> - GROSS WEIGHT (MPH)	79.1	79.1	85.5	80.4	77.9
- LESS FUEL "	74.4	74.4	77.1	75.8	69.1
END-60% V <sub>M</sub> (HR.)		4.9	8.4	4.7	9.6
- 75% V <sub>M</sub> (R)		3.3	6.0	3.3	6.6
- V <sub>M</sub> "		1.0	1.8	1.0	1.8
MAX. RANGE/AV. V <sub>M</sub> (MI/MPH)		940/150	1420/151	880/150	1635/137
TAKE-OFF-CALM (FT.)		567	736	612	530
- 15 KN. (T) "		359	480	393	330
- 25 KN. (LAND) "		240	330	265	223
TAKE-OFF-CALM (SEC.)		-	-	-	-

DATA ARE GIVEN FOR STATUTE MILES

\* AIRPLANE CRITICAL ALTITUDE

† AT 2500 F

FUEL, FIXED TANKS: PROTECTED 144 GALS. TOTAL FIX. TANKS 144 GAL  
 UNPROTECTED None GALS. " "(PROT. REMOVED) 147 GAL

FUEL, DROP TANKS: 2 @ 58 Gals.

OIL TANKS 11 GALS. ( 11 GALS., PROTECTION REMOVED ) (Armor)

PROV. FOR BOMBS, ETC. 2-100

REMARKS IFF equipment in all loadings. S.S. Cells not removed for ferry (only rear tank fuel tight without cell - gain in capacity 3 gals.).

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

GENERAL DATA **DECLASSIFIED**

DATE 8-14-42

GENERAL

Mid-wing monoplane, retractable landing gear.

GROSS WEIGHT: \_\_\_\_\_ GROUND ANGLE: \_\_\_\_\_ PROP. CLEAR. \_\_\_\_\_  
CENTER OF GRAVITY, % MAC: \_\_\_\_\_ FROM THRUST LINE: \_\_\_\_\_  
" " " , MAX. FOR'D : \_\_\_\_\_ MAX. AFT : \_\_\_\_\_

DIMENSIONS

SPAN: \_\_\_\_\_ 38'-0" HEIGHT, LEVEL: \_\_\_\_\_ 11'-11"  
" , FOLDED: \_\_\_\_\_ " , FOLDED: \_\_\_\_\_  
LENGTH, LEVEL: \_\_\_\_\_ 28'-11" " , ON WHEELS: \_\_\_\_\_  
" , ON WHEELS: \_\_\_\_\_ " , HOIST. POSITION: \_\_\_\_\_

AREAS (SQ. FT.)

WING, GROSS: \_\_\_\_\_ 260 AILERON: \_\_\_\_\_  
STABILIZER: \_\_\_\_\_ ELEVATOR: \_\_\_\_\_  
FIN: \_\_\_\_\_ RUDDER: \_\_\_\_\_

WING CELLULE

SECTION: NACA 23000 INCIDENCE: \_\_\_\_\_  
CHORD, ROOT: \_\_\_\_\_ TIP: \_\_\_\_\_ M.A.C.: \_\_\_\_\_ 84.1"  
THICK., % CHORD, ROOT: \_\_\_\_\_ TIP: \_\_\_\_\_ AVERAGE: \_\_\_\_\_  
EFFECT. ASPECT RATIO: \_\_\_\_\_ SWEEPBACK: \_\_\_\_\_  
DIHEDRAL: \_\_\_\_\_

HIGH LIFT DEVICES

TYPE OF FLAP: \_\_\_\_\_  
FLAP SPAN, % WING SPAN: \_\_\_\_\_ FLAP CHORD, % WING CHORD: \_\_\_\_\_  
MAX. FLAP ANGLE: \_\_\_\_\_ AILERON DROOP: \_\_\_\_\_  
TYPE OF SLOT: \_\_\_\_\_

TAIL

ASPECT RATIO, HORIZONTAL: \_\_\_\_\_ VERTICAL: \_\_\_\_\_  
DIST. C.G. TO HINGE, ELEVATOR: \_\_\_\_\_ RUDDER: \_\_\_\_\_

REMARKS:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_