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PREFACE SHEET

BE-306-3

MONTHLY CHART OF FOREIGN AIRPLANE CHARACTERISTICS AND PERFORMANCE

Characteristics and Performance data shown are evaluations of the latest information obtained from various sources including British, Army, and Navy Intelligence. The data itself is derived from estimates based on known characteristics and from actual flight tests of the aircraft in question. Figures shown here are constantly subject to change as later and more detailed information becomes available.

An attempt has been made to express the data in terms which are analagous to those used by the Army Air Forces for the expression of characteristics and performance in similar charts. Therefore the following definitions will be generally applicable:

ENGINE RATINGS are given for the engine as a unit, and do not include ram which may increase the ratings under flight conditions. NORMAL RATED POWER is the maximum power permissible for continuous use and may be obtained between sea level and the normal rated altitude of the engine. Normal rated altitude is the altitude at which normal rated power is developed at normal rated speed with full throttle under standard altitude conditions. (An engine with a two speed or two-stage supercharger has two or more normal rated altitudes). MILITARY RATED POWER is a maximum power permitted for short duration only. TAKE-OFF POWER is the maximum power designated by the manufacturers for use under sea level conditions.

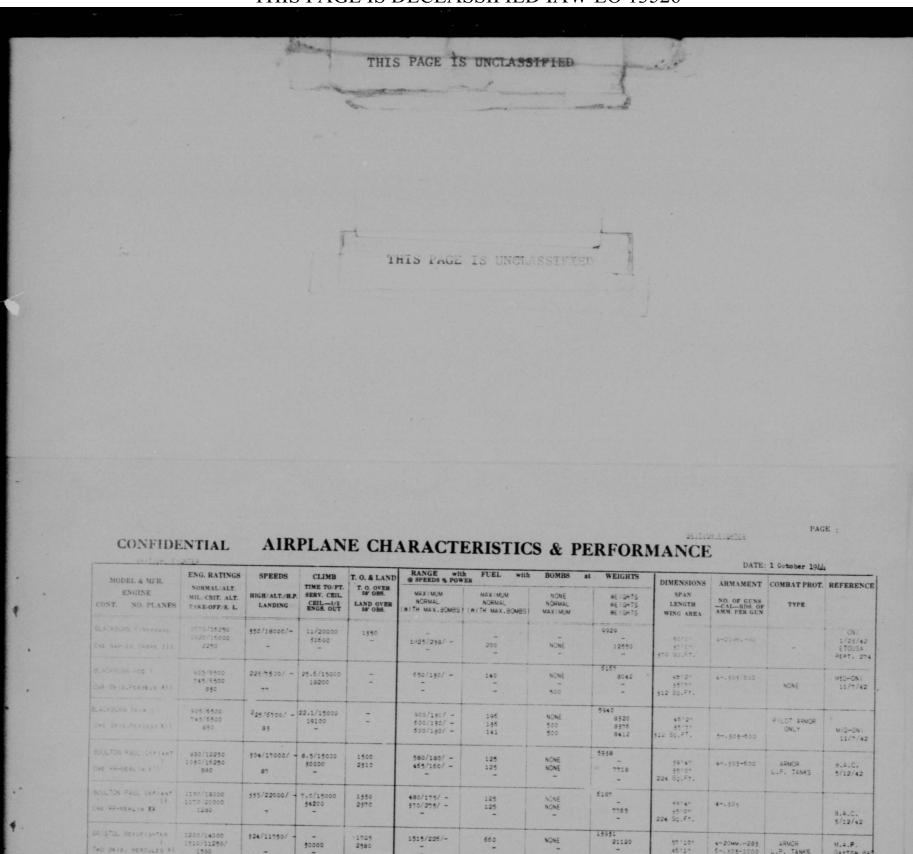
SPEEDS: The high speed based on design gross weight is given at the critical altitude of the airplane (i.e. where best performance is obtained with the horsepower shown). CLIMB is determined with the design gross weight and using take-off and then maximum continuous power. TAKE-OFF and LANDING is based on design gross weight.

RANGE-FUELS-BOMBS: These columns should be used together and take into consideration the weight shown in the weight column. RANGE is based on ideal cruising conditions, utilizing best combination of power, altitude, etc., and do not include any safety factors or allowances for warm-up, take-off, climb, mavigation variations, et. Practical ranges average 75% of the value shown or less.

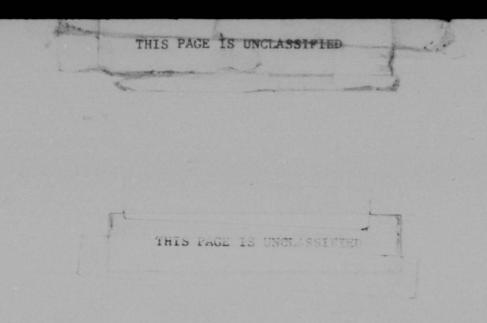
ARMAMENT: Installations for design gross weight.

COMBAT PROTECTION includes Leak Proof (L.P.) Tanks, Armor and Bullet Proff (B.P.) Glass

THIS REPORT SUPERSEDES PREVIOUS EE-306-3 PUBLICATIONS: SUPERSEDED PUBLICATIONS, IF NO LONGER OFFICIALLY REQUIRED, WILL BE DESTROYED IN THE MANNER PRESCRIBED IN PARAGRAPH 23, A.R. 380-5, DATED 28 SEPTEMBER 1942



1200/14000 1510/11250 1590 660 -329/20400/ 57'10' 41'6" 451 SQ.PT. ARMOR L.P. TANKS d.P. ULASS 1510/228/ -- 21322 660 1480/243/ -57'10" 41'6" 451 SQ. FT. NONE 4-20MM.-240 6-.303-1000 380/22000/ 483 1205/240/ -4-20MM.-150 4-.303-500 1365/17000 1380/19000 17**9**5 8731 44'6" 37'0" 328 SQ.FT. 1/23/42 ETOUSA REPT. 274 700/202/ -11371 " ESTIMATE NOTES: DA-DEFENSE AID PO-PURCHASE ORDER CONFIDENTIAL

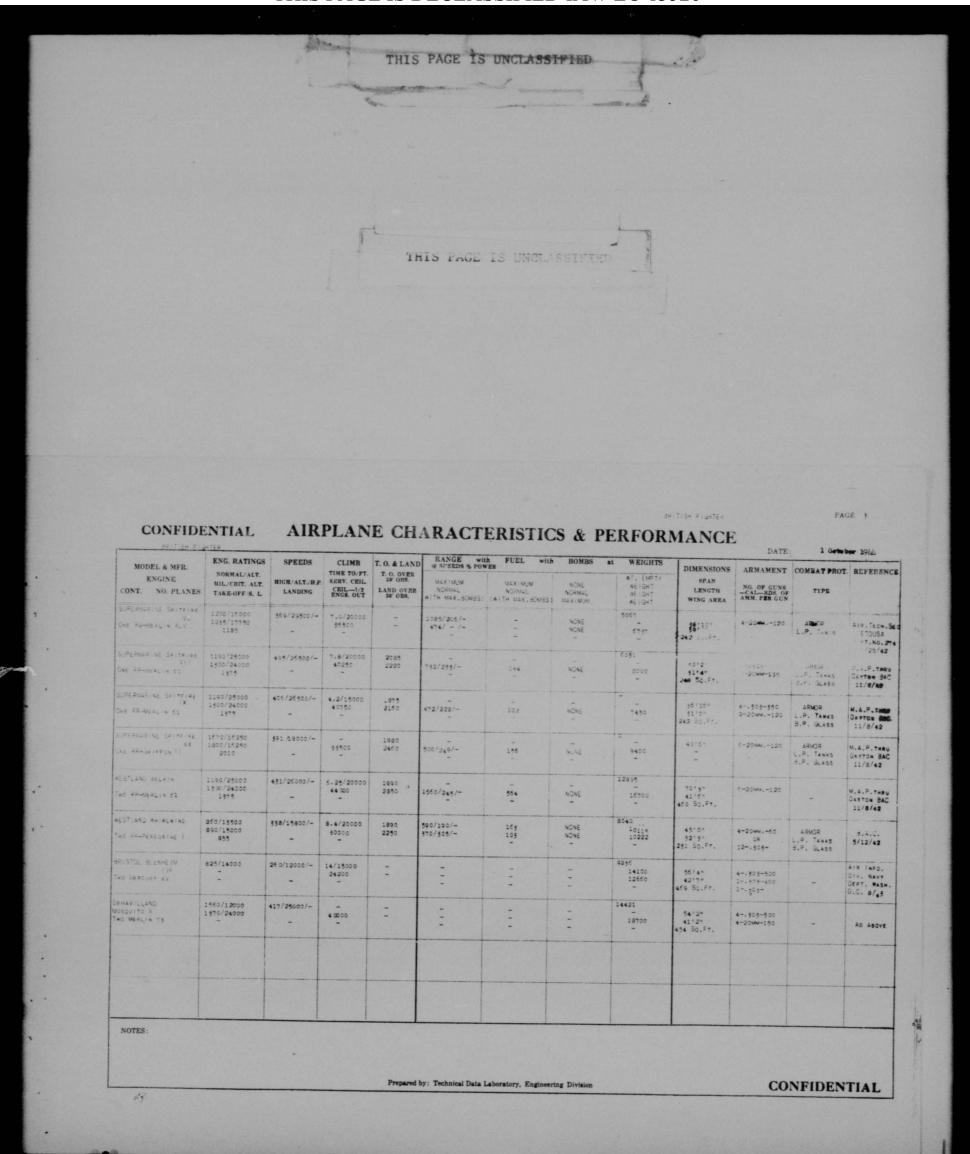


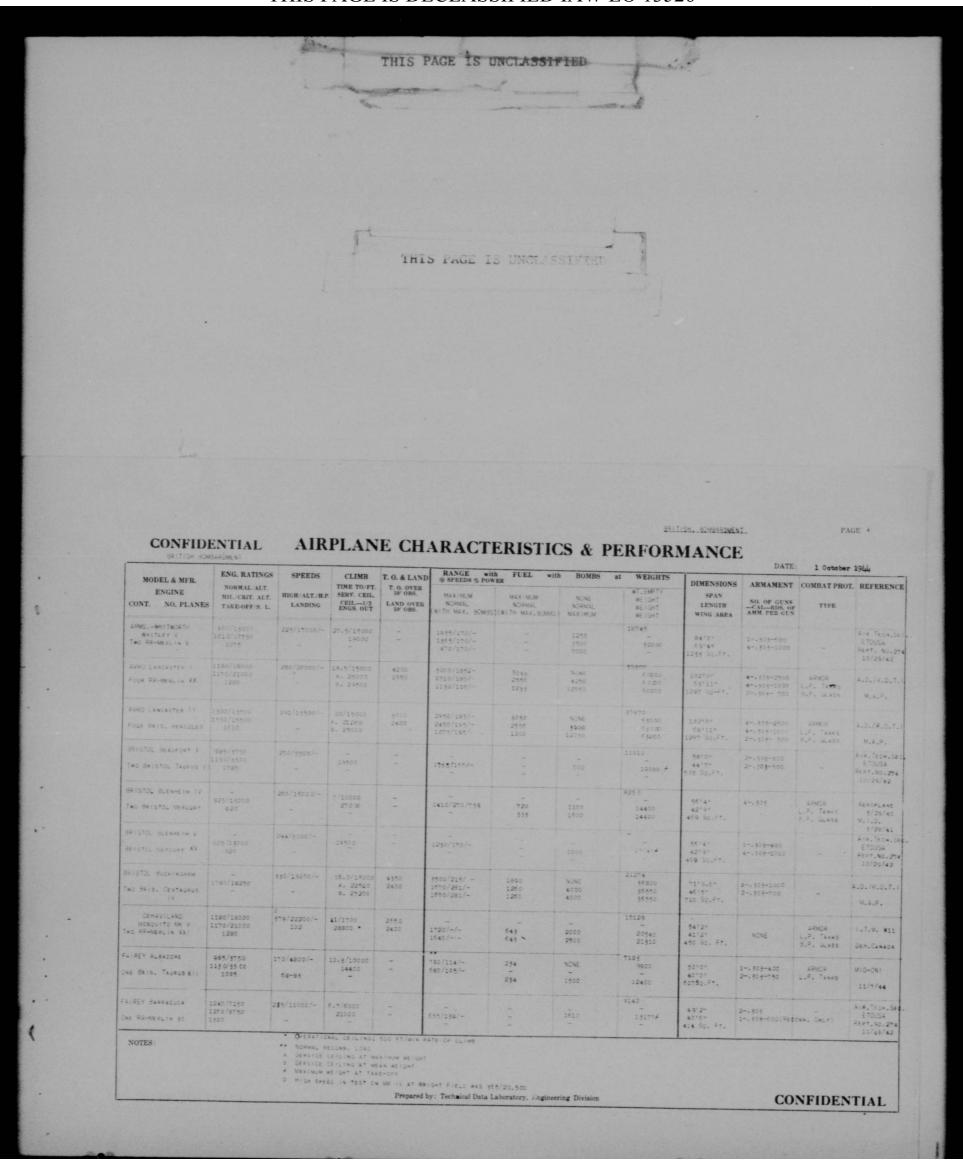
CONFIDENTIAL AIRPLANE CHARACTERISTICS & PERFORMANCE

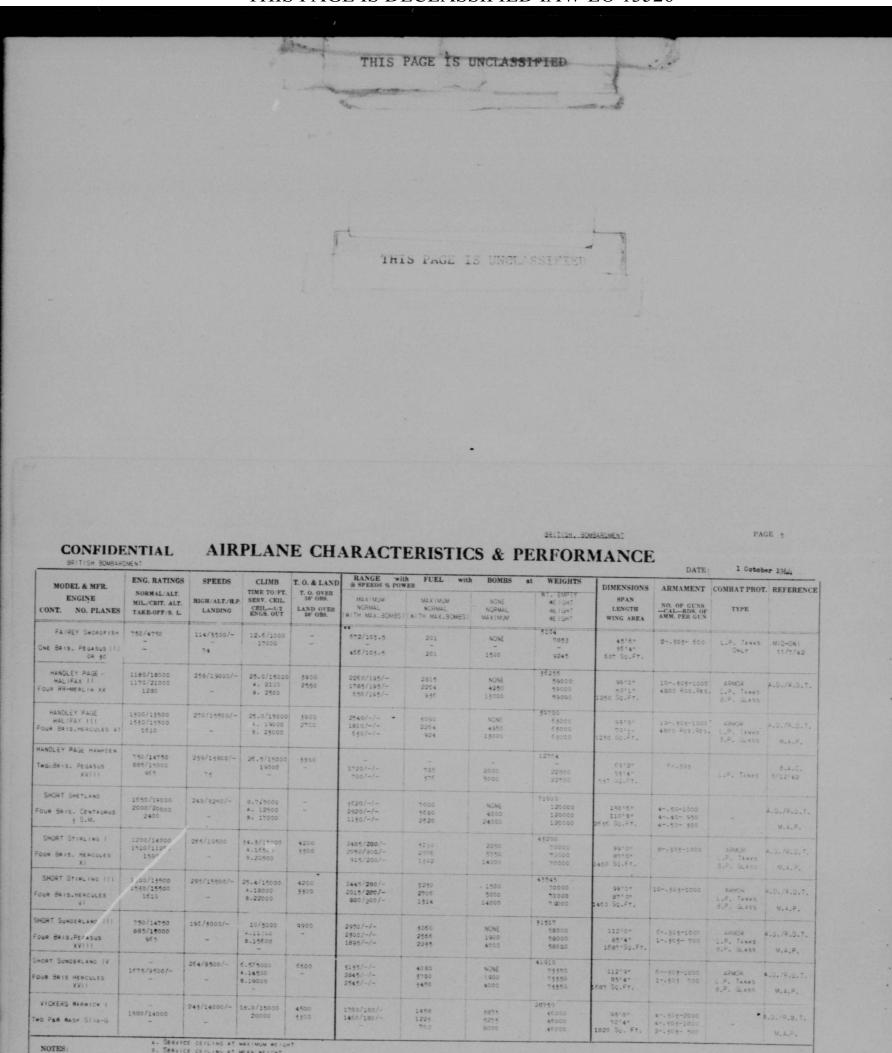
DATE: 1 October 1914 BRITISH FIGHTER ENG. RATINGS SPEEDS T. O. & LAND DIMENSIONS ARMAMENT COMBAT PROT. REFERENCE MODEL & MFR. NORMAL/ALT. MIL/CRIT. ALT. TIME TO/FT. SERV. CEIL. T. O. OVER MAXIMUM MAXIMUM NORMAL SPAN ENGINE HIGH/ALT./H.P. LENGTH WING AREA CEIL.-1/2 ENGS. OUT LAND OVER TAKE-OFF/S. L. 1240/7250 1260/8750 1300 FAIREY FULMAR 925/159/ NONE 75 500 4-,50-360 335/22000 ONE RR- MERLIN XX 116 NONE 5555 1180/18000 1170/21000 1280 HANKER HURRICANE I 115 7580 NONE ONE RR-MERLIN XX 419 Tech. Sect. ETOUS4 Reat.wo.37 10/29/42 1180/18000 1170/21000 1280 313/22000/ 460/210/ -NONE 7656 1770/20000 1900/22000 2000 8380 HANKER TEMPEST 450/25000/-1965 4-20MM.-827/247 11600 ONE NAPIER SABRE IV 8105 HANKER TEMPEST II 1780/18250 996/247 NONE 11550 ONE BRIS. CENTAURUS NONE NONE 1675/16250 1800/16250 2010 MARTIN-BAKER ONE NAPIER SABRE 11 SUPERMARINE SPITFIRE 3007241/-5212 4955 SUPERMARINE SPITFIRE 1200/16000 1235/17750 1185 36'10" 30'0" 242 SQ.Ft. ARMOR L.P. TANKS B.P. GLASS NONE 480/T65/-355/310/-ONE RR-MERLIN XLV *ESTIMATE
**AT WEIGHT OF 10835#
D ESTIMATED TAKE-OFF WEIGHT OF 10500# NOTES:

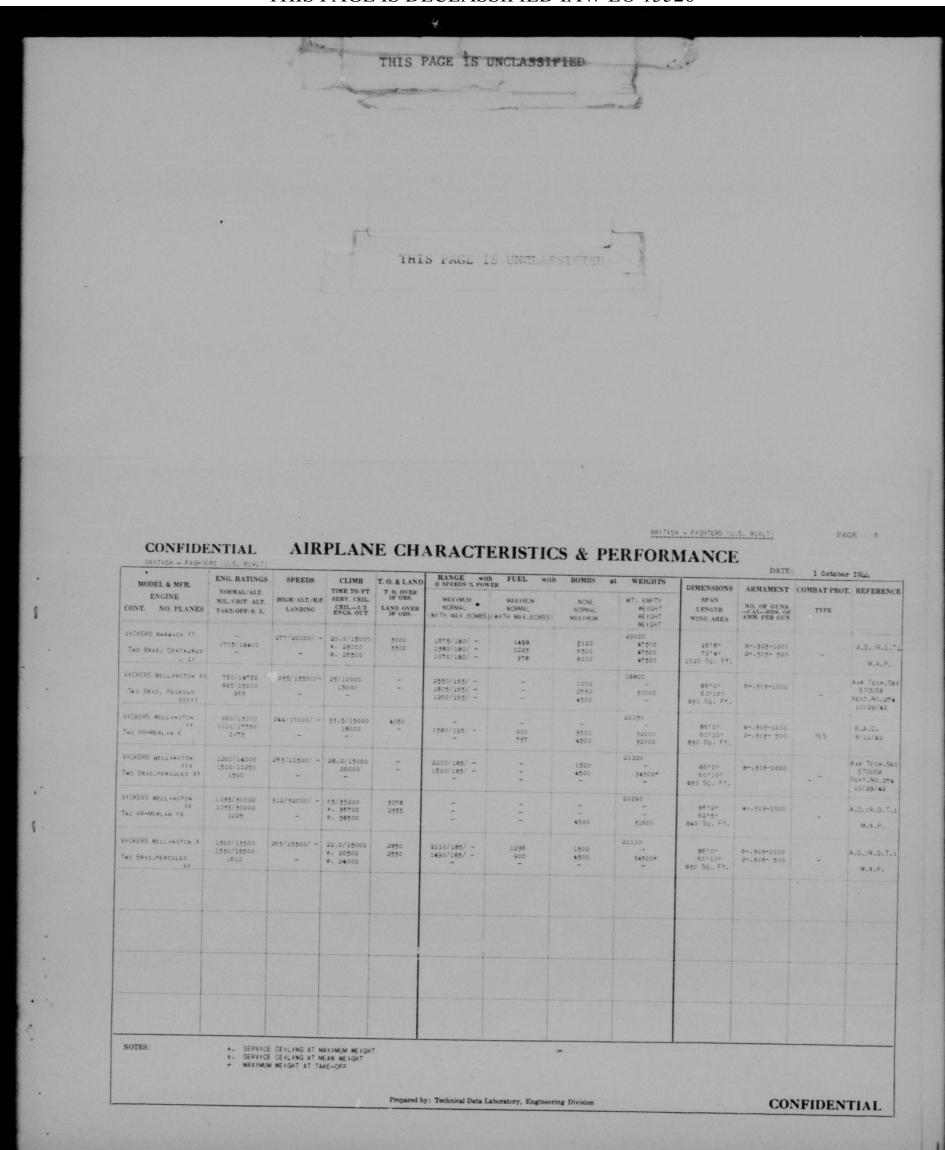
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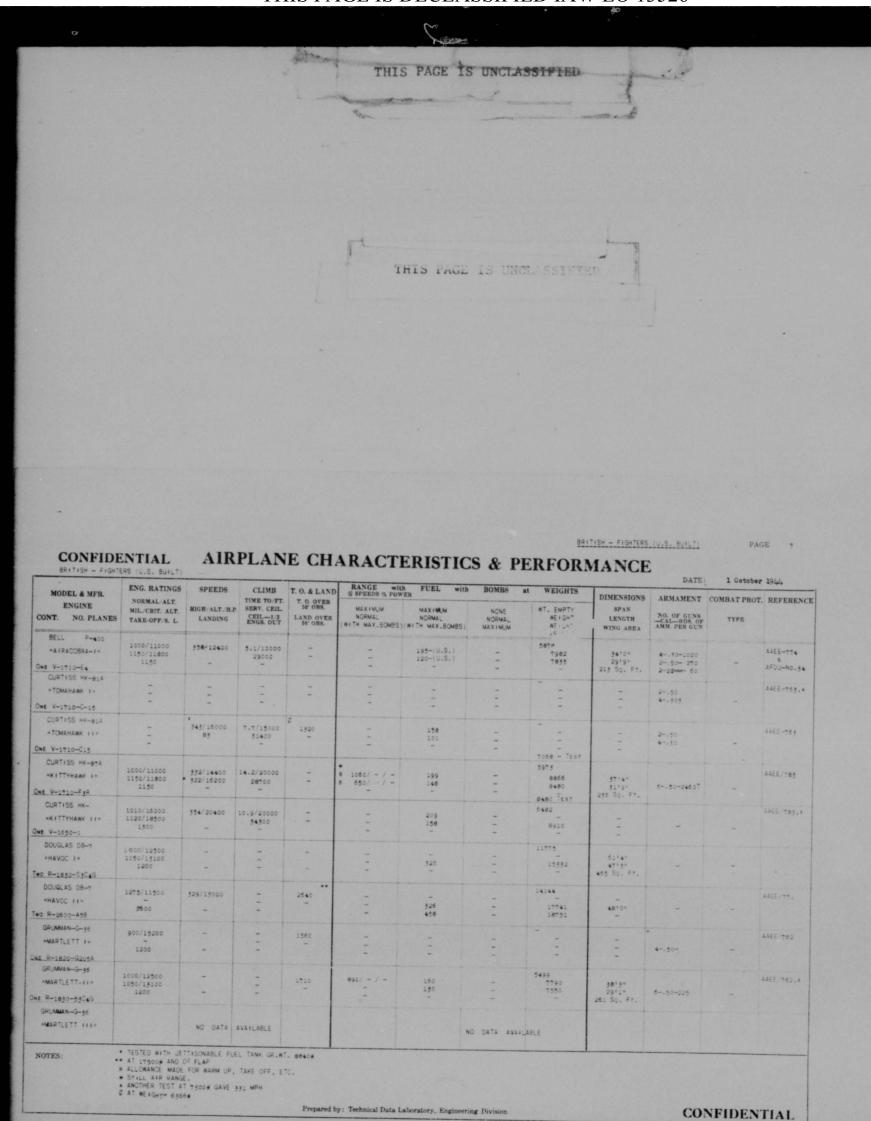
Prepared by: Technical Data Laboratory, Engineering Division

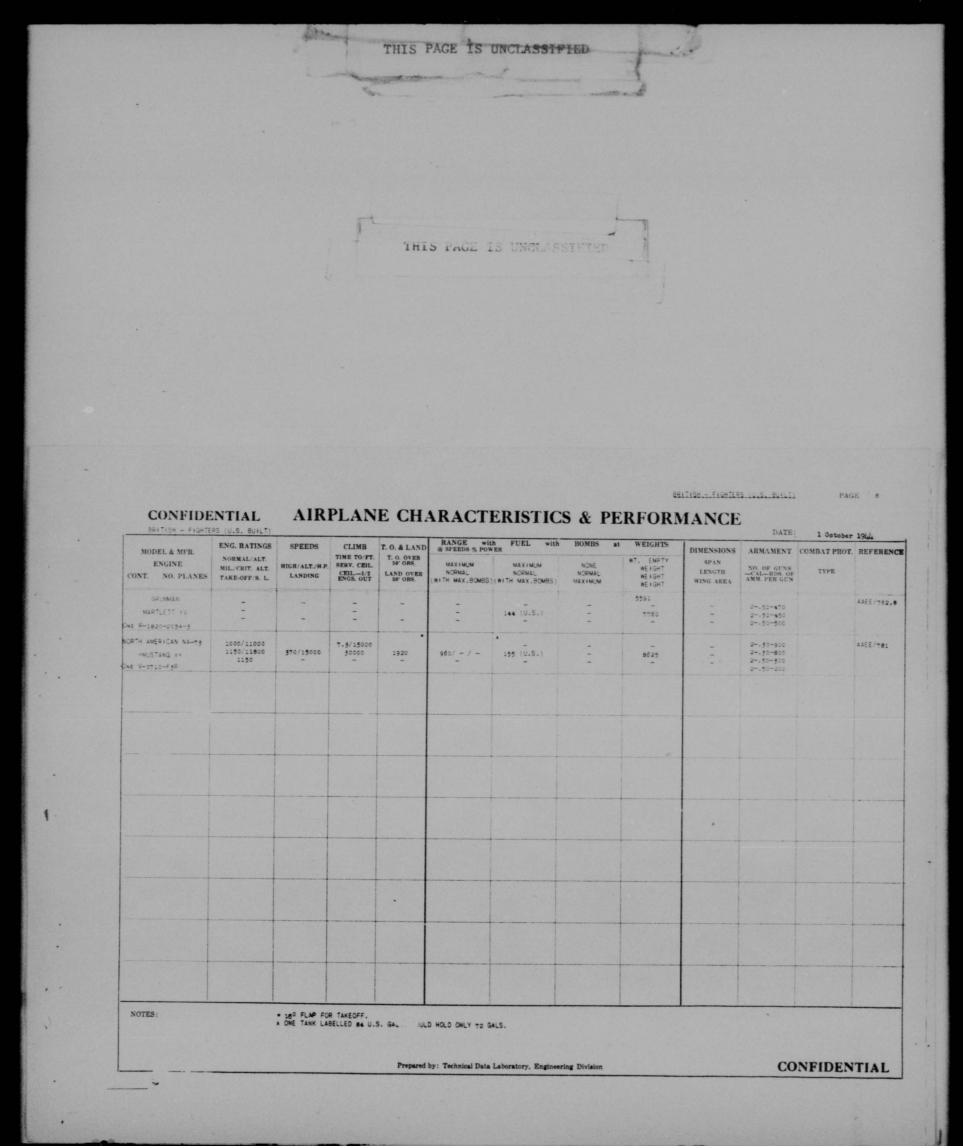


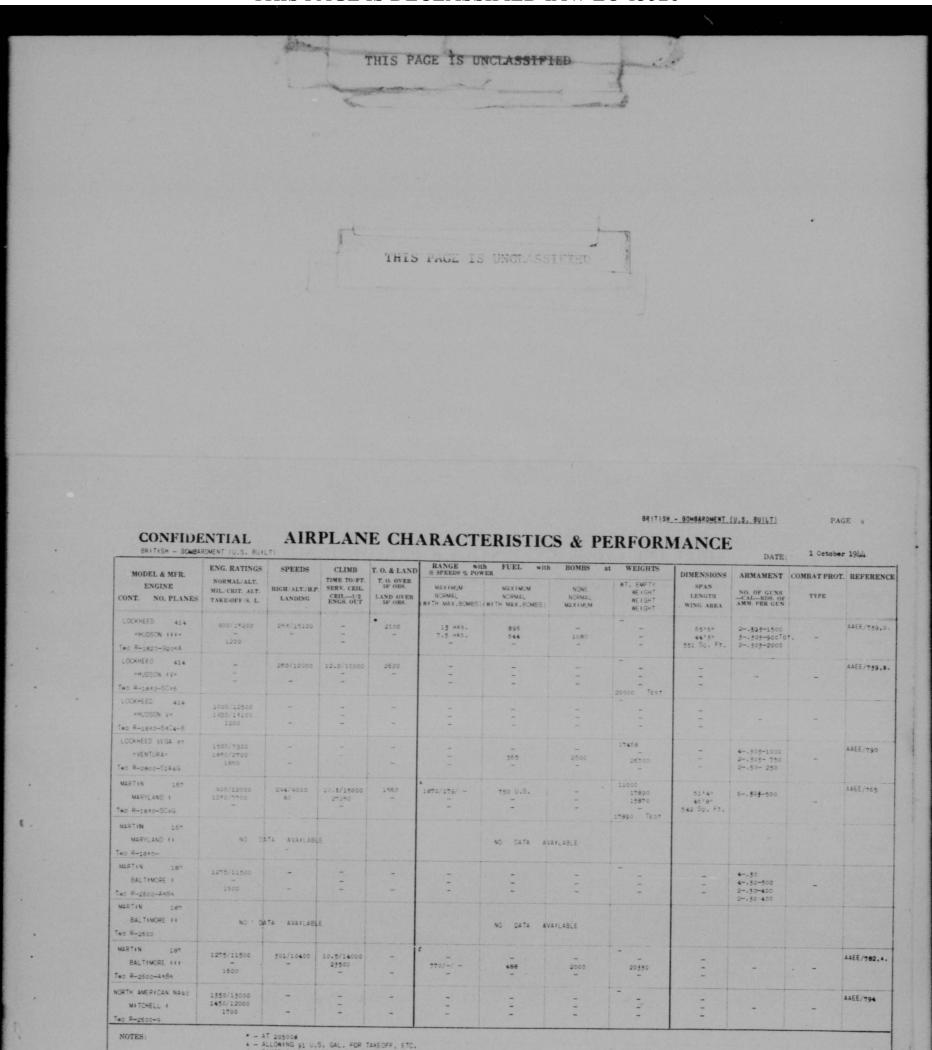


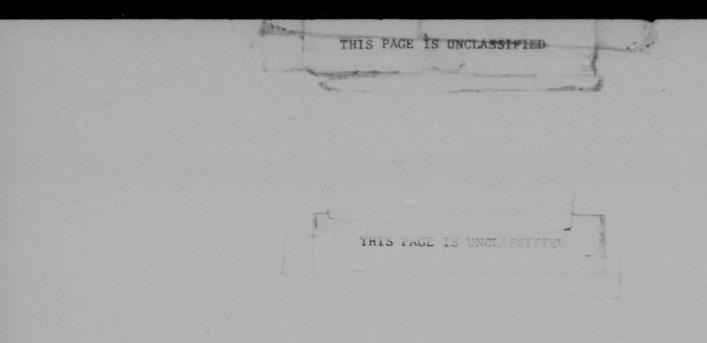






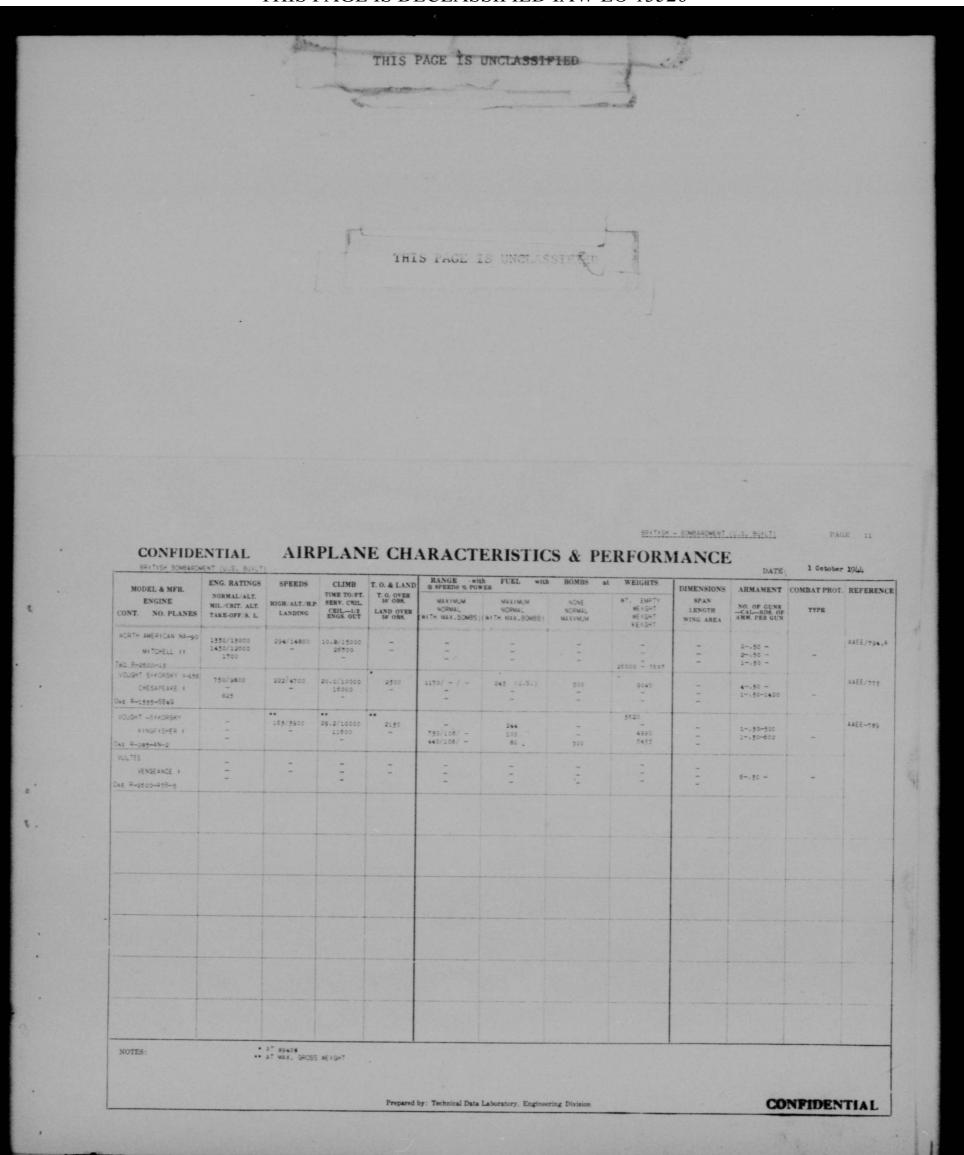


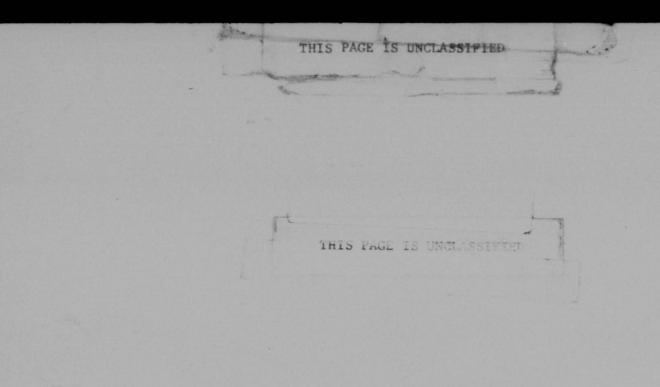




CONFIDENTIAL AIRPLANE CHARACTER'STICS & PERFORMANCE

MODEL & MFR. ENGINE CONT. NO. PLANES	ENG. RATINGS NORMAL/ALT. MIL/CRIT. ALT. TAKE-OFF/S. L.	SPEEDS HIGH/ALT/H.P. LANDING	CLIMB TIME TO/FT. SERV. CEIL. CEIL.—1/2 ENGS. OUT	T. O. & LAND T. O. OVER 50' OBS LAND OVER 50' OBS.	RANGE with FUEL with		BOMBS at	WEIGHTS	DIMENSIONS	ARMAMENT	COMBAT PROT.	REFERENCE
					MAXIMUM NCRMAL (WITH MAX.BOMBS)	MAXIMUM NORMAL (AITH MAX.BOMBS)	NONE NORMAL MAXIMUM	WT. EMPTY WEIGHT WEIGHT WEIGHT	SPAN LENGTH WING AREA	NO. OF GUNS —CAL—RDS. OF AMM. PER GUN	TYPE	
BOEING 299Y *FORTRESS II* Four R-1820-65	1500/25000 1200/25000 1200	300/25000/-	15.1/15000	2850 2400	2650/190/ - 2230/190/ - 1815/190/ -	2520 2120 1738	3700 7400	22065	-	250-450 250-650 250-200		AAEE/770, A AND AD/ROTI
CONSOLIDATED 2 8 *CATALINA* Two R-1830-					NO.	DATA AVAILABLE				250-		
CONSOLIDATED-18-30 "LIBERATOR I" FOUR R-1830-S3C4G	1000/12500 1050/13100 1200	-	-	2800	-	Ē	-	:	110°0" 66°0" 104 Sq. Ft.	-	-	AAEE/769
CONSOLIDATED-18-30 *LIBERATOR II: FQUR-R-1830-83C4G	1000/12500 1050/15100 1200	250/14000/-	=	-	2200/ - / -	-	ecoc	56000	=	4305-600 + 600 RES. 4-303-2200 4-303-1000 2-303-500	-	R.F.D.U.No
CONSOLIDATED-18-30 *LIBERATOR !!!* FOUR R-1830-43	1100/25000 1200/25000 1200	305/25000/-	25.0/10000	3885	3000/ - / - 2180/ - 4 - 1540/ - / -	3120 2270 1510	NONE 4000 8000	. 53500	=	-	-	AAEE 769,x
DOUGLAS DB-7 "BOSTON I" Two R-1830-SC3G	900/12000 1000/11500 1050	307/10000/-	13/20000 **29800 22500	2025	2110/ - / - **750/ - / - 880/180/ -	=		- :	:	-	-	
DOUGLAS DB-7 =BOSTON #1# TWO R-1830	=	-	Ē	-	-	-	-			-		*
DOUGLAS 08-7 *BOSTON 111* TWO R-2600-A59	1275/11500	312/13000/-	:	3540 A. 2835 8.	620/170/ - 880/170/ -	512 382 526	2000 2000	15718 23000 21550 22400	61'4" 47'3" 465 SQ. FT.	0 4303-500 4-2044-60 2303-500	-	AAEE/752.C
LOCKHEED 214 "HUDSON 1" Two R-1820-G1024	900/6700	259/8000/-	-	2970		-	-	20500 - TEST	=			AAEE/739
LOCKHEED-414 *HUDSON II* TWO R-1820-G102A	900/6700	-	=	-	:	=	:		-	-	-	AAEE/





GERMANT - FISHTERS

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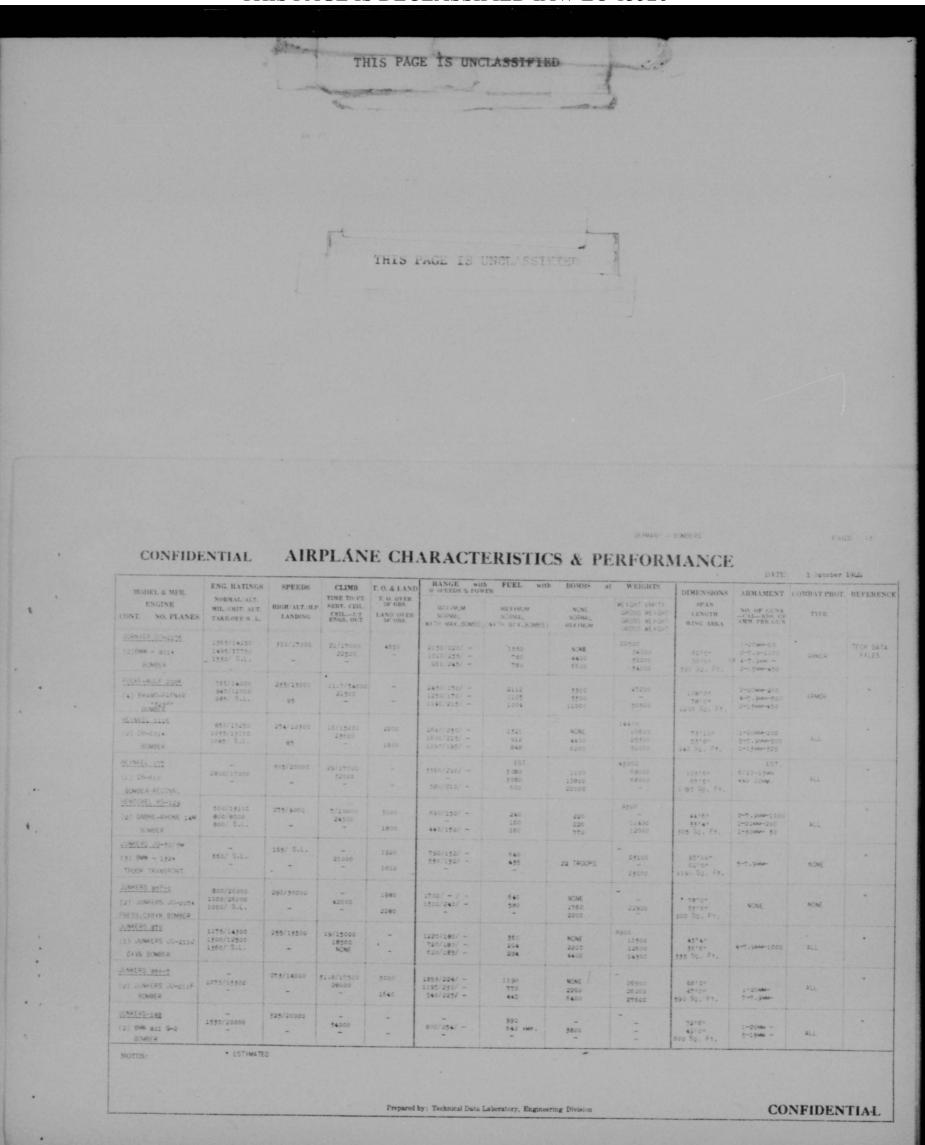
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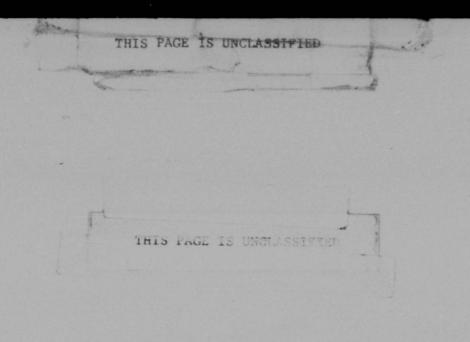
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FUEL with BOMBS at RANGE with speeds & Power ENG. RATINGS SPEEDS CLIMB T. O. & LAND
TIME TO FT.
SERV. CEIL 30 OBS. DIMENSIONS ARMAMENT COMBAT PROT. REFERENCE MODEL & MER. NORMAL ALT. WAXIMUM MAXIMUM NORMAL NORMAL WITH MAX.BOWBS INITH MAX.BOWBS SPAN LENGTH ENGINE LAND OVER CEIL-1/2 ENGS. OUT CONT. NO. PLANES LANDING FOCKE-WULF 1904-5240 TECH. DATA 6,25/18000 38000 NONE 54'6* 29'2" 203 Sq. Ft. (1) 8W- - 110 FIG. P JUNKEP 6510-4710-590 Sq. Ft. (2) BMM - 8-1 2055 NIGHT FIGHTER MESSERSCHMITT WE-1098 5.7/18000 39000 NONE 390/22000/-(1) 08-5016 2100 FIGHTER MESSER: ME-10962,446 395/22000/-1800 (1) DAIM. BENZ: 086054 550 FIGHTER MESSERSCHWITT 110 G (2) 08-6058 FIGHTER WESSER: ME-2100-1 24500 21600 23500 (2)DAIM.BENZ:08-605E FIGHTER-BOMBER MESSER: ME-410A-1 (2) DAIM.BENZ: DB-6034-2 FIGHTER-BOMBER 1700/19000

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AIRPLANE CHARACTERISTICS & PERFORMANCE

JAPANESE AND FORCE

1 October 1914 FUEL with RANGE with SPEEDS % POWER BOMBS ENG. RATINGS SPEEDS CLIMB T. O. & LAND WEIGHTS MODEL & MFR. DIMENSIONS ARMAMENT COMBAT PROT. REFERENCE SERV. CEIL. NORMAL/ALT. T. O. OVER ENGINE WT. EMPTY WEIGHT DESIGN GROS WEIGHT MIL/CRIT. ALT. TAKE-OFF/S. L. SPAN LENGTH CONT. NO. PLANES LANDING CEIL-1/2 ENGS. OUT LAND OVER WING AREA PE D F ZEKE ONE NAKAJIMA SAKE 12 NK-1 2-7.7MM --500 2-20MM-50 FIGHTER
TYPE O F HAMP
ONE NAKALIMA
SAKAE 21
FIGHTER TYPE & F TONY ONE TYPE 2 KANASAKI FIGHTER TYPE 2 F TOUG ONE 1450 NAKAJYMA 3110* 2913# 185 Sq. Ft. ARMOR .P. TANKS INEFFECTIVE) TYPE 2 2EF 850/ -/-FAGHTER TYPE 99 FIGHTER 800/200/ -460/233/ -35'7" 24'4" ONE HIKARI FEGHTER TYPE O FFP RUFE 4145 ONE NAKAJIMA SAKAE 12NK-1 SEAPLANE FIGHTER 3915* 3312* 248 Sq. Ft TYPE O 2EB HELEN TWO NAKAJIMA 1450 MEGIUM BOMBER 58101 54101 155 So. Ft 2040/233/ TYPE 97 2EB SALLY MAZ TWO TYPE 100 MITSU. 1450/ 5-7.7MW -1-12.7MM-L.P. TANKS (INEFFECTIVE) * MEDIUM BOMBER R - REVISED

- JETTISONABLE FUEL TANK.
 EXTRA FUEL CARPIED IN MAIN FLOAT.
 F THIS IS O SSF ZEKE EQUIPPED WITH 1 MAIN AND TWO MING TIF FLOATS.

UAPANESE DO NOT USE NAME OF MANUFACTURERS IN DESIGNATING THEIR AIRCRAFT.

Prepared by: Technical Data Laboratory, Engineering Division

