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EE-306-3
FOREIGN

**MONTHLY CHART
AIRPLANE CHARACTERISTICS & PERFORMANCE**



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1 MAY 1944

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PREFACE SHEET

EE-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 analogous 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, navigation variations, etc. 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 Proof (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.

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CONFIDENTIAL MONTHLY CHART BRITISH, FIGHTER AIRPLANE CHARACTERISTICS & PERFORMANCE

PAGE 1

DATE: 1 May, 1944

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. CELL CEIL.-1.2 ENGS. OUT	T. O. & LAND T. O. OVER 30' OBS. LAND OVER 30' OBS.	RANGE with FUEL with BOMBS at WEIGHTS		DIMENSIONS SPAN LENGTH WING AREA	ARMAMENT NO. OF GUNS -CAL.-RDS. OF AMM. PER GUN	COMBAT PROT. TYPE	REFERENCE	
					MAXIMUM NORMAL (WITH MAX. BOMBS)	MAXIMUM NORMAL (WITH MAX. BOMBS)					None NORMAL MAXIMUM
BLACKBURN Firebrand One Napier Sabre III	1670/16250 1920/16000 2250	358/18000/-	11/20000 31600	1350	-	1025/238/-	9929 12550	50'10" 37'6" 370 Sq. Ft.	1-20mm.-80	None	OWI 1/23/42 STOUSA Rept. 274
BLACKBURN Roc I One Eric.Persesus III	905/6500 745/6500 830	223/7500/- 77	25.6/15000 18200	-	650/130/-	110 500	6167 8042	16'2" 35'7" 312 Sq. Ft.	1-303-600	None	MID-OWI 11/7/42
BLACKBURN Roc I One Eric.Persesus III	905/6500 745/6500 830	225/8700/- 83	22.1/15000 19100	-	900/130/- 600/130/-	196 136 112	5940 8320 8376 8412	16'2" 35'7" 312 Sq. Ft.	5-303-600	Pilot Armor only	MID-OWI 11/7/42
BOULTON PAUL Defiant I One ER-Merlin III	990/12250 1030/16250 880	304/17000/- 87	8.5/15000 30000	1500 2310	580/180/- 465/250/-	125 125	5938 7718	39'14" 35'0" 224 Sq. Ft.	1-303-600	Armor L.P. Tanks	B.A.C. 5/12/42
BOULTON PAUL Defiant II One ER-Merlin IX	1180/18000 1170/21000 1280	335/22000/-	7.0/15000 34200	1350 2370	480/175/- 370/275/-	125 125	6187 7765	39'14" 35'0" 224 Sq. Ft.	1-303	-	B.A.C. 5/12/42
BRISTOL Beaufighter I Two ER-Hercules IX	1200/14000 1510/11250 1950	304/17500/-	- 30000	1785 2580	1515/226/-	660	13931 21120	57'10" 41'6" 451 Sq. Ft.	1-20mm.-283 6-303-1000	Armor L.P. Tanks B.P. Glass	B.A.P. thru Dayton SAC 11/8/42
BRISTOL Beaufighter II Two ER-Merlin IX	1180/18000 1170/21000 1280	329/20400/-	9.9/15000 30000	2070 2505	1510/228/-	660	12895 20374	57'10" 41'6" 451 Sq. Ft.	1-20mm.-283 6-303-1000	Armor L.P. Tanks B.P. Glass	B.A.P. thru Dayton SAC 11/8/42
BRISTOL Beaufighter III Two ER-Hercules VI	1300/13500 1550/15500 1610	333/15600/-	7.8/15000 27000	1845 2550	1180/213/-	660	21322	57'10" 41'6" 451 Sq. Ft.	1-20mm.-210 6-303-1000	Armor L.P. Tanks B.P. Glass	B.A.P. thru Dayton SAC 11/8/42
DEHAVILLAND Mosquito VI Two ER-Merlin III	1180/18000 1170/21000 1280	360/22000/-	7.3/20000 29500	2175 2535	1205/210/-	1000	11319 19822	54'2" 41'2" 460 Sq. Ft.	1-20mm.-150 1-303-500	-	B.A.P. thru Dayton SAC 11/8/42
FAIRY Firefly One ER-Griffon II	1365/17000 1380/19000 1755	338/21000/-	10.2/20000 30600	1950	700/202/-	-	8731 11372	44'6" 37'0" 328 Sq. Ft.	2-20mm.-175 2-20mm.-150	-	OWI 1/23/42 STOUSA Rept. 274

* Estimate

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CONFIDENTIAL MONTHLY CHART BRITISH, FIGHTER AIRPLANE CHARACTERISTICS & PERFORMANCE DATE 1 May, 1944

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/PT. SERV. CEIL. CEIL.-1/2 ENGS. OUT	T. O. & LAND T. O. OVER 50' OBS. LAND OVER 50' OBS.	RANGE with @ SPEEDS % POWER		FUEL with		BOMBS at		WEIGHTS WT. EMPTY WEIGHT WEIGHT	DIMENSIONS SPAN LENGTH WING AREA	ARMAMENT NO. OF GUNS -CAL.-RDS. OF AMM. PER GUN	COMBAT PROT. TYPE	REFERENCE
					MAXIMUM NORMAL (WITH MAX. BOMBS)	MAXIMUM NORMAL (WITH MAX. BOMBS)	NONE NORMAL MAXIMUM	NONE NORMAL MAXIMUM							
FAIRY Fulmar II One RR-Merlin 30	1210/7250 1250/8750 1300	251/9600/- 75	20.3/20000 24000	- -	925/150/- -	186 -	None 500	7575 9980	16'10" 10'11" 378 Sq. Ft.	8-.303-1000 or 4-.50-350	Armor L.P. Tanks B.F. Glass	WID-CMI 11/7/42			
HAWKER Hurricane IIB One RR-Merlin IX	1180/18000 1170/21000 1280	335/22000/- -	5.9/15000 36600	1250 1980	510/170/- 355/221/-	116 116	None None	5290 7200 7200	40'0" 31'5" 258 Sq. Ft.	12-.303-300	Armor L.P. Tanks	B.A.C. 5/12/42			
HAWKER Hurricane IIC One RR-Merlin IX	1180/18000 1170/21000 1280	327/20500/- -	- 36000	1770 2160	480/214/- -	116 -	None -	5655 7560	40'0" 31'5" 258 Sq. Ft.	4-20mm.-120	Armor L.P. Tanks	Air Tech. Sect. STOUSA Rept. No. 274 10/29/42			
HAWKER Hurricane IID One RR-Merlin IX	1180/18000 1170/21000 1280	313/22000/- -	- 31500	- -	460/210/- -	- -	None -	- 7656	40'0" 31'5" 258 Sq. Ft.	2-.303-600 2-10mm.-16	-	Air Tech. Sect. STOUSA Rept. No. 274 10/29/42			
HAWKER Tempest I One Napier Sabre IV	1770/20000 1900/22000 2000	450/26000/- -	6.7/20000 38800	1965 2160	827/217/- -	230 -	None -	8380 11600	41'0" 33'6" 307 Sq. Ft.	4-20mm.-	-	M.A.P. thru Dayton SAC 11/8/42			
HAWKER Tempest II One Bris. Centaurus IV	1780/18250 -	420/19000/- -	7.2/20000 36800	1830 2145	996/217/- -	230 -	None -	8105 11550	41'0" 33'6" 307 Sq. Ft.	4-20mm.-	-	M.A.P. thru Dayton SAC 11/8/42			
HAWKER Typhoon IB One Napier Sabre II	1675/16250 1800/16250 2010	411/21000/- 88	7.5/20000 34600	2600 2220	610/238/- 410/344/-	124 124	None None	8337 10500 10500	41'0" 32'0" 279 Sq. Ft.	12-.303-500 or 4-20mm.-150	Armor L.P. Tanks B.F. Glass	M.I.D. 10/24/41 Cable 6/16/41			
MARTIN-BAKER One Napier Sabre II	1675/16250 1800/16250 2010	430/15000/- -	- -	- -	1 3/4 hr. endurance	- -	- -	- -	37'0" -	6-20mm.-200	-	Special Army Observ. 1/24/42			
SUPERMARINE Spitfire VA One RR-Merlin XIV	1200/16000 1235/17750 1185	373/19500/- -	5.2/15000 37600	- -	500/211/- -	102 -	None -	- 6212	36'10" 30'0" 242 Sq. Ft.	8-.303-300	Armor L.P. Tanks B.F. Glass	AAF Dayton Flight Test			
SUPERMARINE Spitfire VB One RR-Merlin XIV	1200/16000 1235/17750 1185	371/20000/- -	6.6/20000 37700	1200 1830	480/185/- 335/310/-	102 102	None None	4835 6160 6460	36'10" 30'0" 242 Sq. Ft.	4-.303-350 2-20mm.-60	Armor L.P. Tanks B.F. Glass	B.A.C. 5/12/42			

* Estimate
** At weight of 10835#
‡ Estimated take-off weight of 10500#

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CONFIDENTIAL MONTHLY CHART BRITISH FIGHTER AIRPLANE CHARACTERISTICS & PERFORMANCE

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DATE: 1 May, 1944

MODEL & MFR. ENGINE CONT. NO. PLANES	ENG. RATINGS NORMAL ALT. MIL./CRIT. ALT. TAKE-OFF S. L.	SPEEDS HIGH ALT./HP LANDING	CLIMB TIME TO FT. SERV. CEIL. CEIL.-1/2 ENGE. OUT	T. O. & LAND T. O. OVER 50 OBS. LAND OVER 50 OBS.	RANGE with FUEL with BOMBS at WEIGHTS			DIMENSIONS SPAN LENGTH WING AREA	ARMAMENT NO. OF GUNS CAL. RDS. OF AMM. PER GUN	COMBAT PROT. TYPE	REFERENCE
					MAXIMUM NORMAL (WITH MAL. BOMBS)	MAXIMUM NORMAL (WITH MAL. BOMBS)	NONE NORMAL MAXIMUM				
SUPERMARINE Spitfire VC One RB-Merlin XLV	1200/16000 1235/17750 1165	369/19500/- -	7.0/20000 36500	- -	1085/206/- 1474/-/-	- -	None None	5067 6737	36'10" 50'0" 242 Sq. Ft.	4-20mm.-120 L.P. Tanks	Air. Tech. Sec STOUSA Rept. No. 274 10/29/42
SUPERMARINE Spitfire VII One RB-Merlin 61	1190/25000 1300/24000 1375	405/25500/- -	7.8/20000 40250	2085 2220	732/233/- -	144 -	None -	6031 8000	40'2" 31'4" 248 Sq. Ft.	4-303-350 2-20mm.-135 L.P. Tanks B.P. Glass	W.A.P. thru Dayton SAC 11/8/42
SUPERMARINE Spitfire IX One RB-Merlin 61	1190/25000 1300/24000 1375	406/25500/- -	4.2/15000 40750	1875 2160	472/228/- -	102 -	None -	7160	36'10" 31'0" 242 Sq. Ft.	4-303-350 2-20mm.-120 L.P. Tanks B.P. Glass	W.A.P. thru Dayton SAC 11/8/42
SUPERMARINE Spitfire IX One RB-Griffon II	1675/16250 1800/16250 2010	391/18000/- -	- 33500	1980 2160	500/210/- -	156 -	None -	9100	40'6" -	6-20mm.-120 L.P. Tanks B.P. Glass	W.A.P. thru Dayton SAC 11/8/42
WESTLAND Welkin Two RB-Merlin 61	1190/25000 1300/24000 1375	431/26000/- -	6.25/20000 44000	1890 2850	1560/215/- -	564 -	None -	12895 16700	70'3" 41'6" 460 Sq. Ft.	6-20mm.-120 -	W.A.P. thru Dayton SAC 11/8/42
WESTLAND Whirlwind Two RB-Peregrine I	860/13500 890/15000 895	338/15800/- -	8.4/20000 30000	1890 2250	590/190/- 370/205/-	163 103	None None	8010 10115 10222	45'0" 32'3" 231 Sq. Ft.	4-20mm.-60 or 18-303- L.P. Tanks B.P. Glass	B.A.C. 5/12/42
BRISTOL BLenheim IVP Two Mercury XV	825/14000 -	260/12000/- -	14/15000 21200	- -	- -	- -	- -	9256 14100 12560	56'4" 42'7" 469 Sq. Ft.	4-303-500 1-303-400 1-303- -	Air Info. U.S. Navy Dept. Wash. D.C. 8/45
DEHAVILLAND Mosquito I Two Merlin 73	1560/12000 1370/24000 -	417/25000/- -	- 40000	- -	- -	- -	- -	14421 19700	54'2" 41'2" 454 Sq. Ft.	4-303-500 4-20mm.-150 -	AS ABOVE

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CONFIDENTIAL MONTHLY CHART BRITISH, BOMBARDMENT AIRPLANE CHARACTERISTICS & PERFORMANCE

DATE: 1 May, 1944

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 F. O. OVER SW OBS. LAND OVER SW OBS.	RANGE with @ SPEEDS & POWER			WEIGHTS WT. EMPTY WEIGHT WEIGHT	DIMENSIONS SPAN LENGTH WING AREA	ARMAMENT NO. OF GUNS -CAL.-DPS. OF AMM. PER GUN	COMBAT PROT. TYPE	REFERENCE
					MAXIMUM NORMAL (WITH MAX. BOMBS)	MAXIMUM NORMAL (WITH MAX. BOMBS)	NONE NORMAL MAXIMUM					
ARMS. -WHITWORTH Whitley V Two ER-Merlin I	960/13000 1010/17750 1075	225/17000/-	27.5/15000 19000	- -	1935/170/- 1765/170/- 1470/170/-	- -	1250 3500 7000	18745 -	81'0" 69'11" 1233 Sq. Ft.	1-.303-600 1-.303-1000	-	Air Tech. Sec. PTCUSA Rept. No. 274 10/29/42
AVRO Lancaster I Four ER-Merlin XI	1180/18000 1170/21000 1280	280/20000/-	14.5/15000 a. 25000 b. 29500	1200 2550	3000/185/- 2510/185/- 1130/185/-	3038 2556 1833	None 1450 12750	35300 60000 60000 60000	102'0" 68'11" 1297 Sq. Ft.	1-.303-2500 1-.303-1000 2-.303- 500	Armor L.P. Tanks S.P. Glass	A.D./R.D.T.I M.A.P.
AVRO Lancaster II Four Eris. Hercules VI	1300/13500 1530/15500 1610	291/15500/-	20/15000 a. 21000 b. 25000	3000 2100	2950/195/- 2450/195/- 1075/195/-	3038 2546 1800	None 3900 12750	37970 63000 63000 63000	100'0" 68'11" 1297 Sq. Ft.	1-.303-2500 1-.303-1000 2-.303- 500	Armor L.P. Tanks S.P. Glass	A.D./R.D.T.I M.A.P.
BRISTOL Beaufort I Two Bristol Taurus VI	985/3750 1130/3500 1085	270/5500/-	- 19500	- -	1785/155/-	- -	- 500	11910 19080	58'0" 41'7" 503 Sq. Ft.	2-.303-1000 2-.303-500	-	Air Tech. Sec. PTCUSA Rept. No. 274 10/29/42
BRISTOL Blenheim IV Two Bristol Mercury XV	- 825/13000 920	266/15000/-	7/10000 27000	- -	1110/270/ 75*	- 720 333	- 1100 1600	4250 -	56'11" 42'9" 459 Sq. Ft.	1-.303	Armor L.P. Tanks	Acroplane 3/29/40 M.I. 4 3/28/41
BRISTOL Blenheim V Bristol Mercury IV	- 825/13000 920	211/6000/-	- 19500	- -	1230/170/-	- -	- 1000	- 17010	56'11" 42'9" 459 Sq. Ft.	1-.303- 1000 1-.303-1000	-	Air Tech. Sec. PTCUSA Rept. No. 274 10/29/42
BRISTOL Buckingham Two Eris. Centaurus IV	- 1780/18250	330/19250/-	16.0/15000 a. 22500 b. 27200	1350 2100	3500/215/- 1570/281/- 1670/281/-	1840 1260 1260	None 1000 1000	21275 36200 36550 36550	71'9.6" 46'15" 710 Sq. Ft.	2-.303-1000 2-.303- 700	-	A.D./R.D.T.I M.A.P.
DeHAVILLAND Mosquito MK V Two ER-Merlin XII	1180/18000 1170/21000 1280	379/22200/- 102	1/1700 28600 *	2650 2100	1720/- / - 1640/- / -	- 512 513	- 2000 2500	15129 -	51'2" 41'2" 450 Sq. Ft.	None	Armor L.P. Tanks S.P. Glass	I.T.M. #11 DeH. Canada
FAIRY Albacore One Eris. Taurus XII	985/3750 1130/3500 1085	170/1200/-	10.3/10000 11100	- -	790/111/- 680/105/-	234 234	None 1500	7103 9900 12400	50'0" 40'0" 607 Sq. Ft.	1-.303- 1000 2-.303- 750	Armor L.P. Tanks	MID-ONI 11/7/42
FAIRY Barracuda One ER-Merlin 30	1210/7250 1260/8750 1300	235/11000/-	6.7/6000 21000	- -	655/138/-	- -	- 1610	9112 -	45'2" 40'6" 414 Sq. Ft.	2-.303 1-.303-600(Recomm. only)	-	Air Tech. Sec. PTCUSA Rept. No. 274 10/29/42

* Operational ceiling; 500 ft./min rate of climb
 ** Normal recon. load
 a Service ceiling at maximum weight
 b Service ceiling at mean weight
 * Maximum weight at take-off
 d High speed in test on ME IV at Wright Field was 365/20,500 ft.

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MONTHLY CHART BRITISH, SOMMERSET
CONFIDENTIAL AIRPLANE CHARACTERISTICS & PERFORMANCE

DATE: 1 May, 1944

MODEL & MFR.	ENG. RATINGS NORMAL ALT MIL. CRPT. ALT TAKE-OFF & L.	SPEEDS HIGH ALT. RE- LANDING	CLIMB TIME TO FT. HGT. CRCL ENGL. IN LAST OVEY OF CRCL	T.O. & LAND T.O. CRCL OF CRCL LAST OVEY OF CRCL	RANGE with		FUEL with	BOMBS at	WEIGHTS	DIMENSIONS		ARMAMENT	COMBAT PROT.	REFERENCE
					MAXIMUM NORMAL (WITH MAX. BOMBS)	MAXIMUM BOMB (WITH MAX. BOMBS)				SPAN	LENGTH WING AREA			
FAIRY Heronich One Brit. Pegasus III or 30	750/1750	112/1500/-	12.5/1500 17000	-	1075/105.5 1060/105.5	201	None 1500	None	5120 7653	48'6" 36'4"	10-305-600	L.P. Tanks Only	U.S. CRT 11/7/42	
HARLEY Fox Bellanca II	1100/12000 1170/21000 1280	350/12000/-	37.0/15000 a. 71000 b. 25000	2300 2550	2250/195/- 1780/195/- 560/195/-	2815 2260 936	None 1250 13500	None 1250 16000	3496 5000 16000	99'0" 70'11"	10-305-1000 1200 lbs. Res.	Armor L.P. Tanks S.P. Glass	A.D./N.D.T.	
HARLEY Fox Bellanca III	1300/13500 1530/17500 1610	370/15500/-	35.0/15000 a. 17000 b. 23000	2400 2700	2540/-/- 1810/-/- 630/-/-	3090 2260 920	None 1250 13500	None 1250 16000	3700 5000 16000	99'0" 70'11"	10-305-1000 1200 lbs. Res.	Armor L.P. Tanks S.P. Glass	A.D./N.D.T.	
HARLEY Fox Bellanca IV	750/11750 600/14000 965	250/13000/-	26.5/15000 19000	3100	-/-/- 1730/-/- 700/-/-	- 765 376	- 2000 5000	- 2250 2500	10700 - 2500	6'12" 58'4"	6-305	L.P. Tanks	N.A.P. 3/10/42	
HERB Shetland Four Brit. Centaurus 3 G.M.	1650/10000 2000/20000 200	212/1250/-	5.7/5000 a. 12500 b. 17000	-	3600/-/- 2920/-/- 1170/-/-	7000 5600 2600	None 1200 21000	None 1200 120000	71000 120000 120000	100'6" 110'9"	4-50-1000 4-50-500	-	A.D./N.D.T. N.A.P.	
HERB Stirling I Four Brit. Hercules II	1200/11000 1510/11250 150	265/10500/-	34.3/15000 a. 16500 b. 20500	1200 3500	2160/200/- 2050/200/- 915/200/-	3250 2706 1592	2250 7750 11200	2250 7000 70000	43200 70000 70000	90'0" 87'0"	6-305-1000	Armor L.P. Tanks S.P. Glass	A.D./N.D.T. N.A.P.	
HERB Stirling III Four Brit. Hercules VI	1300/13500 1550/15500 1610	285/13500/-	35.1/15000 a. 13000 b. 22000	1200 3300	2115/200/- 2015/200/- 800/200/-	3230 2706 1311	1500 5000 14000	None 7000 70000	10515 70000 70000	99'0" 87'0"	10-305-1000	Armor L.P. Tanks S.P. Glass	A.D./N.D.T. N.A.P.	
HERB Sunderland III Four Brit. Pegasus XVIII	750/11750 805/15000 965	196/10000/-	1.7/5000 a. 11700 b. 15000	9900	2970/-/- 2300/-/- 1895/-/-	3060 2566 2235	None 1900 4000	None 5000 58000	31517 26000 58000	112'0" 85'4"	6-305-1000 1-305-700	Armor L.P. Tanks S.P. Glass	A.D./N.D.T. N.A.P.	
HERB Sunderland IV Four Brit. Hercules XVII	- 1075/9500/-	264/9500/-	6.5/5000 a. 11500 b. 10000	6600	3175/-/- 2815/-/- 2500/-/-	1080 3700 3450	None 1300 4000	None 1300 73550	11910 73550 73550	112'0" 85'4"	6-305-1000 1-305-700	Armor L.P. Tanks S.P. Glass	A.D./N.D.T. N.A.P.	
VICKERS Warwick I Two P.W. Wasp SIA-0	- 1500/14000	213/14000/-	18.0/15000 20000	4500 3500	1780/180/- 1120/180/- 840/180/-	1158 1225 768	3875 5275 8000	28750 16000 16000	28750 16000 16000	98'8" 72'11"	4-305-2000 4-305-1000	-	A.D./N.D.T. N.A.P.	

a. Service ceiling at maximum weight
 b. Service ceiling at mean weight
 ** Normal reconnaissance load.

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CONFIDENTIAL MONTHLY CHART BRITISH, BOMBARDIER AIRPLANE CHARACTERISTICS & PERFORMANCE

PAGE 6

DATE: 1 May, 1944

MODEL & MFR. ENGINE CONT. NO. PLANES	ENG. RATINGS NORMAL/ALT. MIL./CRIT. ALT. TAKE-OFF S. L.	SPEEDS HIGH/ALT./HP. LANDING	CLIMB TIME TO FT. SERV. CEIL. CEIL.-1.2 ENGS. OUT	T. O. & LAND T. O. OVER 50 OBS. LAND OVER 40 OBS.	RANGE with FUEL with BOMBS at WEIGHTS		WT. EMPTY WEIGHT WEIGHT	DIMENSIONS SPAN LENGTH WING AREA	ARMAMENT NO. OF GUNS -CAL.-RDS. OF AMM. PER GUN	COMBAT PROT. TYPE	REFERENCE	
					MAXIMUM NORMAL (WITH MAX. BOMBS)	MAXIMUM NORMAL (WITH MAX. BOMBS)						
VICKERS Warwick II Two Bris. Centaurus IV	- 1775/14100	277/20000/- -	20.0/15000 a. 23000 b. 26500	3000 3300	1675/180/- 1380/180/- 1070/180/-	1168 1223 973	5100 5500 8000	29000 47500 47500	96'8" 72'4" 1020 Sq. Ft.	8-.303-1000 2-.303- 500	- -	A. D./R. D. T. I M.A.P.
VICKERS Wellington Ic Two Bris. Pegasus XVIII	750/14750 895/15000 965	235/15500/- -	25/19000 15000	- -	8550/165/- 1805/165/- 1200/165/-	- - -	1000 2750 1500	15500 - 30000	86'0" 60'10" 830 Sq. Ft.	6-.303-1000	-	Air Tech. Sec STOUSA Rept. No. 274 10/29/42
VICKERS Wellington Two RR-Merlin IX	960/13000 1010/17750 1075	244/17000/- -	33.5/15000 18000	4050 -	1580/195/- -	- 900 737	3500 1500	20050 - 32000	86'0" 60'10" 830 Sq. Ft.	4-.303-1000 2-.303- 500	Yes	B.A.C. 5/12/42
VICKERS Wellington Two Bris. Hercules II	1200/14000 1510/11250 1990	263/11500/- -	28.0/25000 20000	- -	2200/185/- 1500/185/- -	- - -	1500 1500 -	21220 - 31500 f	86'0" 60'10" 830 Sq. Ft.	8-.303-1000	-	Air Tech. Sec STOUSA Rept. No. 274 10/29/42
VICKERS Wellington Two RR-Merlin IX	1035/30000 1035/30000 1225	312/32000/- -	65/35000 a. 36700 b. 38500	3078 2355	- -	- -	- 1500	20290 - 31600	86'2" 62'5" 810 Sq. Ft.	4-.303-1000	-	A. D./R. D. T. I M.A.P.
VICKERS Wellington I Two Bris. Hercules VI	1300/13500 1530/15500 1610	265/15500/- -	22.0/15000 a. 20500 b. 21000	2850 2550	2110/185/- 1160/185/- -	1236 900 -	1500 1500 -	21110 - 31500 f	86'0" 60'10" 830 Sq. Ft.	6-.303-1000 2-.303- 500	-	A. D./R. D. T. 1 M.A.P.

a. Service ceiling at maximum weight
b. Service ceiling at mean weight
f. Maximum weight at take-off

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MONTHLY CHART
CONFIDENTIAL AIRPLANE CHARACTERISTICS & PERFORMANCE

BRITISH - FIGHTERS (U.S. BUILT)

PAGE 7

BRITISH - FIGHTERS (U.S. BUILT)

DATE: 1 May, 1944

MODEL & MFR. ENGINE	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 SPAN LENGTH WING AREA	ARMAMENT NO. OF GUNS -CAL.-BDS. OF AMM. PER GUN	COMBAT PROT. TYPE	REFERENCE	
					MAXIMUM NORMAL (WITH MAX. BOMBS)	MAXIMUM NORMAL (WITH MAX. BOMBS)	NONE NORMAL MAXIMUM					WT. EMPTY WEIGHT WEIGHT WEIGHT
BELL P-400 "AIRACOBRA -I" One W-1710-EL	1000/11000 1150/11800 1150	358/12400	5.1/10000 29000	-	-	195-(U.S.) 120-(U.S.)	- -	5878 7582 7835	34'0" 29'0" 213 Sq. Ft.	4-.30-1000 3-.50-270 2-20mm-60	-	AAEE-774 AFIX-80,34
CURTISS HK-81A "TOMAHAWK I" One W-1710-C-15	-	-	-	-	-	-	-	-	-	2-.50 4-.303	-	AAEE-763,a
CURTISS HK-81A "TOMAHAWK II" One W-1710-C15	-	343/16000 83	7.7/15000 31400	1320	-	158 101	-	- -	-	2-.50 4-.30	-	AAEE-763
CURTISS HK-87A "KITTYHAWK I" One W-1710-F3R	1000/11000 1150/11800 1150	332/14400 322/16200	14.2/20000 28700	-	a b	1060/-/- 650/-/-	199 148	5973 8866 8180	37'14" 31'0" 236 Sq. Ft.	6-.50-2460T	-	AAEE-783
CURTISS HK- "KITTYHAWK II" One W-1650-1	1010/16000 1120/18500 1300	354/20400	10.9/20000 34300	-	-	209 158	-	8180 6482 8910	-	-	-	AAEE-783,a
DOUGLAS DB-7 "HAWC I" Two B-1830-S3C14	1000/12500 1050/13100 1200	-	-	-	-	326	-	11775 15332	61'4" 47'3" 465 Sq. Ft.	-	-	-
DOUGLAS DB-7 "HAWC II" Two B-2600-A5B	1275/11500 1600	329/13000	-	2610**	-	326 458	-	14144 17744 18751	46'0"	-	-	AAEE-771
GRUMMAN G-36 "MARTLETT I" One B-1820-0205A	900/15200 1200	-	-	1560	-	-	-	-	-	4-.50-	-	AAEE-762
GRUMMAN G-36 "MARTLETT-II" One B-1830-53C14	1000/12500 1050/13100 1200	-	-	1710	a	160 130	-	5169 7790 7550	38'3" 29'1" 261 Sq. Ft.	6-.50-225	-	AAEE-762,a
GRUMMAN G-36 "MARTLETT III"	-	NO DATA	AVAILABLE	-	-	-	-	-	-	-	-	-

a-Tested with Jettisonable fuel tank Gr. Wt. 8640#
 aa-At 17500# and 0° flap
 b-Allowance made for warm up, take off, etc.
 c-Still air range.
 d-Another test at 7300# gave 331 MPH
 e-At weight = 6366#

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MONTHLY CHART BRITISH - FIGHTERS (U.S. BUILT) PAGE 5

CONFIDENTIAL AIRPLANE CHARACTERISTICS & PERFORMANCE

BRITISH - FIGHTERS (U.S. BUILT) DATE: 1 May, 1944

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 ENGR. OUT	T. O. & LAND T. O. OVER 30' OBS. LAND OVER 30' OBS.	RANGE with @ SPEEDS % POWER			FUEL with	BOMBS at	WEIGHTS		DIMENSIONS SPAN LENGTH WING AREA	ARMAMENT NO. OF GUNS -CAL.-RDS. OF AMM. PER GUN	COMBAT PROT. TYPE	REFERENCE
					MAXIMUM NORMAL (WITH MAX. BOMBS)	MAXIMUM NORMAL (WITH MAX. BOMBS)	SOME NORMAL MAXIMUM		WT. EMPTY	WEIGHT WEIGHT WEIGHT					
GRUMMAN MARTLET IV One 2-1520-205A-3	- - -	- - -	- - -	- - -	- - -	- - -	114 (U.S.)	- - -	- - -	5591 - - -	- - -	2-.50-470 2-.50-450 2-.50-500	- - -	- - -	AAEP/762,b
NORTH AMERICAN SA-73 "MUSTANG I" One W-1710-75R	1000/11000 1150/11800 1150	370/15000 -	7.3/15000 30000 -	1920 -	- -	960/- / -	155 (U.S.)	- - -	- - -	- - -	- - -	2-.30-900 2-.30-800 2-.50-300 2-.50-200	- - -	- - -	AAEP/781

* 15° flap for takeoff.
 a One tank labelled 84 U.S. gals. would hold only 72 gals.

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CONFIDENTIAL MONTHLY CHART AIRPLANE CHARACTERISTICS & PERFORMANCE

BRITISH - BOMBARDMENT (U.S. BUILT)

PAGE 9

BRITISH - BOMBARDMENT (U.S. BUILT)

DATE: 1 May, 1944

MODEL & MFR. ENGINE CONT. NO. PLANES	ENG. RATINGS NORMAL ALT. MIL./CRIT. ALT. TAKE-OFF S. L.	SPEEDS HIGH/ALT./HP. LANDING	CLIMB TIME TO/FT. SERV. CEIL. CRIL-1/2 ENGS. OUT	T. O. & LAND T. O. OVER 50' OBS. LAND OVER 50' OBS.	RANGE with FUEL with BOMBS at WEIGHTS			DIMENSIONS SPAN LENGTH WING AREA	ARMAMENT NO. OF GUNS -CAL.-RDS. OF AMM. PER GUN	COMBAT PROT. TYPE	REFERENCE
					MAXIMUM NORMAL (WITH MAX. BOMBS)	MAXIMUM NORMAL (WITH MAX. BOMBS)	NONE NORMAL MAXIMUM				
LOCKHEED 414 "HUDSON III" Two B-1820-G205A	900/15200 1200	255/15100	- -	2100	13 hrs. 7.5 hrs.	896 614	- 1050	- -	65'6" 44'3" 551 sq. ft.	2-.303-1500 3-.303-600Tot. 2-.303-2000	AAEE/739,d.
LOCKHEED 414 "HUDSON IV" Two B-1850-8C36	- -	260/10000	12.0/10000	2620	- -	- -	- -	- -	- -	- -	AAEE/739,b.
LOCKHEED 414 "HUDSON V" Two B-1850-83Cl-B	1000/12500 1050/13100 1200	- -	- -	- -	- -	- -	- -	- -	- -	- -	-
LOCKHEED V89A 37 "VENTURA" Two B-2800-61A10	1500/7500 1850/2700 1850	- -	- -	- -	- -	- 565	- 2500	17168 -	- -	1-.303-1000 2-.303-750 2-.50-250	AAEE/790
MARTIN 157 MARYLAND I Two B-1850-8C10	900/12000 1050/7700	294/9000 80	12.1/15000 2750	1560	1870/179/ - -	750 U.S. -	- -	11000 17890 15870 17890 Test	61'11" 46'8" 512 sq. ft.	6-.303-500	AAEE/765
MARTIN 157 MARYLAND II Two B-1850-	NO DATA AVAILABLE	NO DATA AVAILABLE	NO DATA AVAILABLE	NO DATA AVAILABLE	NO DATA AVAILABLE	NO DATA AVAILABLE	NO DATA AVAILABLE	NO DATA AVAILABLE	NO DATA AVAILABLE	NO DATA AVAILABLE	NO DATA AVAILABLE
MARTIN 187 BALTIMORE I Two B-2500-1535	1275/11500 1600	- -	- -	- -	- -	- -	- -	- -	- -	1-.30 1-.30-500 2-.30-400 2-.30-400	-
MARTIN 187 BALTIMORE II Two B-2500	NO DATA AVAILABLE	NO DATA AVAILABLE	NO DATA AVAILABLE	NO DATA AVAILABLE	NO DATA AVAILABLE	NO DATA AVAILABLE	NO DATA AVAILABLE	NO DATA AVAILABLE	NO DATA AVAILABLE	NO DATA AVAILABLE	NO DATA AVAILABLE
MARTIN 187 BALTIMORE III Two B-2500-1535	1275/11500 1600	301/10400	10.5/11600 23500	- -	770/ - / - -	188 -	- 2000	- 20330	- -	- -	AAEE/782,a.
NORTH AMERICAN 1490 MITCHELL I Two B-2500-9	1350/13000 1150/12000 1780	- -	- -	- -	- -	- -	- -	- -	- -	- -	AAEE/794

* - At 20500#
 a - ALLOWING 91 U.S. gal. for takeoff, etc.
 † - Range given is practical range = 75% still air range

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MONTHLY CHART BRITISH - BOMBARDMENT (U.S. MILIT) PAGE 10

CONFIDENTIAL AIRPLANE CHARACTERISTICS & PERFORMANCE

BRITISH - BOMBARDMENT (U.S. MILIT) DATE: 1 May, 1944

MODEL & MFR. ENGINE CONT. NO. PLANES	ENG. RATINGS NORMAL/ALT. MIL./CRIT. ALT. TAKE-OFF S. L.	SPEEDS HIGH/ALT./HP LANDING	CLIMB TIME TO FT. SERV. CEIL. CEIL.-1/2 ENGS. OUT	T. O. & LAND T. O. OVER 30° OBS. LAND OVER 30° OBS.	RANGE with FUEL with BOMBS at WEIGHTS			DIMENSIONS SPAN LENGTH WING AREA	ARMAMENT NO. OF GUNS -CAL.-HRS. OF AMM. PER GUN	COMBAT PROT. TYPE	REFERENCE
					MAXIMUM NORMAL (WITH MAX. BOMBS)	MAXIMUM NORMAL (WITH MAX. BOMBS)	NOSE NORMAL MAXIMUM				
BOEING 297 "FORTRESS II" Four B-1820-65	1000/25000 1200/25000 1200	300/25000/-	15.1/15000	2850 2100	2650/190/- 2230/190/- 1815/190/-	2520 2120 1738	- 3700 7400	22065 - -	2- 50-150 2- 50-650 2- 50-200 2- 50-	-	AAEE/770,a and AI/R.II.1
CONSOLIDATED 2 B "CATALINA" Two B-1830-					NO DATA AVAILABLE						
CONSOLIDATED-1b-30 "LIBERATOR I" Four B-1830-830Lg	1000/12500 1050/13100 1200	-	-	2800	-	-	-	-	110'0" 66'0" 104 Sq. Ft.	-	AAEE/769
CONSOLIDATED-1b-30 "LIBERATOR II" Four B-1830-830Lg	1000/12500 1050/13100 1200	250/11000/-	-	-	2200/-/-	-	8000	-	4- 303-600 + 600 res. 4- 303-2200 4- 303-1000 2- 303- 500	-	R. P. D. U. No 14
CONSOLIDATED-1b-30 "LIBERATOR III" Four B-1830-1g	1100/25000 1200/25000 1200	305/25000/-	25.0/10000	3885	3000/-/- 2180/-/- 1540/-/-	3120 2270 1610	None 4000 8000	33500 - -	-	-	AAEE/769,a
DOUGLAS DB-7 "BOSTON I" Two B-1830-803g	900/12000 1000/11500 1050	307/10000/-	13/20000	2025	2110/-/- **2900 880/180/-	-	-	-	-	-	-
DOUGLAS DB-7 "BOSTON II" Two B-1830	-	-	-	-	-	-	-	-	-	-	-
DOUGLAS DB-7 "BOSTON III" Two B-2600-A5B	1275/11500 1500	312/15000/-	-	3540 a. 2835 b.	620/170/- 580/170/-	512 382 526	- 2000 2000	15718 23000 21550 22100	61'4" 47'3" 165 Sq. Ft.	4- 303-500 4- 20mm-60 2- 303-500	AAEE/752,c
LOCKHEED 214 "HUDSON I" Two B-1820-G102A	900/8700 1100	239/8000/-	-	2970	-	-	-	-	-	-	AAEE/739
LOCKHEED-414 "HUDSON II" Two B-1820-G102A	900/8700 1100	-	-	-	-	-	-	20500 - test	-	-	AAEE/

* At 53000# gross weight
** Estimated
a At 25000# gross weight with 15° flap
b At 21500# gross weight with 15° flap
c Armament used in "INTRUDER" version
d At 17500# gross weight

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MONTHLY CHART

BRITISH BOMBARDMENT (U.S. BUILT)

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CONFIDENTIAL AIRPLANE CHARACTERISTICS & PERFORMANCE

BRITISH BOMBARDMENT (U.S. BUILT)

DATE: 1 May, 1944

MODEL & MFR. ENGINE	ENG. RATINGS NORMAL/ALT. MIL. CRIT. ALT. TAKE-OFF/S. L.	SPEEDS HIGH/ALT./RP. LANDING	CLIMB TIME TO FT. SERV. CEIL. CEIL.-1/2 ENGS. OUT	T. O. & LAND T. O. OVER 90 OBS. LAND OVER 90 OBS.	RANGE with SPEEDS & POWER			FUEL with BOMBS	BOMBS at	WEIGHTS WT. EMPTY WEIGHT WEIGHT	DIMENSIONS SPAN LENGTH WING AREA	ARMAMENT NO. OF GUNS -CAL.-RDS. OF AMM. PER GUN	COMBAT PROT. TYPE	REFERENCE
					MAXIMUM NORMAL (WITH MAX. BOMBS)	MAXIMUM NORMAL (WITH MAX. BOMBS)	NONE NORMAL MAXIMUM							
NORTH AMERICAN NA-70 MITCHELL II Two B-2500-13	1350/13000 1150/12000 1700	294/11800 -	10.8/15000 26700 -	- -	- -	- -	- -	- -	26000 - test	- -	- -	2-.50 - 2-.50 - 1-.30 -	-	AAEE-794, A
VOUGHT SIKORSKI V-156 CHESAPEAKE I One B-1535-SB40	750/9800 525	222/1700 -	20.0/10000 16000	2300 -	1170/-/- -	246 (U.S.) -	500 -	-	9040 -	- -	- -	1-.30- 1-.30-1400	-	AAEE-773
VOUGHT-SIKORSKI KINGFISHER I One B-985-AH-2	- -	** 163/3900 -	** 29.2/10000 11600	** 2130 -	730/106/- 140/106/-	244 100 80	- 500	-	3620 4990 5135	- -	- -	1-.30-500 1-.30-600	-	AAEE-789
VULTUR VIRGILIANE I One B-2500-45B-5	- -	- -	- -	- -	- -	- -	- -	-	- -	- -	- -	6-.30-	-	

* At 8940ft
** At max. gross weight

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MONTHLY CHART
 GERMAN - FIGHTERS
 PAGE 12
 CONFIDENTIAL AIRPLANE CHARACTERISTICS & PERFORMANCE

DATE: 1 May, 1944

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 ENGR. OUT	T. O. & LAND T. O. OVER 1/2 OBS. LAND OVER 1/2 OBS.	RANGE with @ SPEEDS & POWER			FUEL with		BOMBS at		WEIGHTS		DIMENSIONS SPAN LENGTH WING AREA	ARMAMENT NO. OF GUNS -CAL.-RDS. OF AMM. PER GUN	COMBAT PROT. TYPE	REFERENCE TECH. DATA FILES
					MAXIMUM NORMAL (WITH MAX. BOMBS)	MAXIMUM NORMAL (WITH MAX. BOMBS)	NONE NORMAL MAXIMUM	NONE NORMAL MAXIMUM	NONE NORMAL MAXIMUM	WT. EMPTY GROSS WEIGHT GROSS WEIGHT	WT. EMPTY GROSS WEIGHT GROSS WEIGHT						
FOCKE-WULF 190A-3 (1) BMW - 801D FIGHTER	1150/- 1600/11000 1695/S.L.	395/17000/- 110	6.25/18000 38000 NONE	2250 2700	820/220/- 380/335/- 440/230/-	- - -	216 138 138	NONE NONE NONE	NONE NONE NONE	6210 9200 8600 5800	34'6" 29'2" 205 Sq. Ft.	2-7.9mm-1000 2-20mm-250 2-20mm-60	ALL	TECH. DATA FILES			
JUNKERS JU86C5 (2) BMW - 801D NIGHT FIGHTER	1150/18000 1530/20000 1695/S.L.	347/17500 -	10.3/18500 30200 -	2310 2055	1620/245/- 800/230/- -	- -	948 444 -	NONE	NONE	21000 27800 25000 -	56'0" 47'0" 590 Sq. Ft.	3-20mm-120 7-7.9mm-1000	ALL	"			
MESSERSCHMITT ME-109F -4 (1) DB-601B FIGHTER	1220/15000 1390/14500 1395/S.L.	390/22000/- -	5.7/18000 39000 NONE	1800 2100	1050/205/- 600/205/- 540/200/-	- -	185 185 105	NONE -	550	4740 EST. 6980 6420 7000	32'6" 29'3" 172 Sq. Ft.	2-7.9mm-500 1-20mm-200	ALL	"			
MESSER: ME-109E2, H, H6 (1) DAIM. BENZ: DB605A FIGHTER	1330/16000 1520/15000 1455/S.L.	395/22000/- -	6.3/18000 37500 NONE	1800 2100	1020/210/- 115/210/- 535/210/-	- -	185 105 105	NONE -	550	4883 7230 5670 7300	32'6" 29'3" 172 Sq. Ft.	2-7.9mm-500 1-20mm-200 (2-20mm OPTIONAL)	ALL	"			
MESSERSCHMITT 110 G (2) DB-605B FIGHTER	- 1350/18700 -	368/19000/- -	7.3/18000 36800 NONE	- -	1700/205/- 905/205/- -	- -	675 280 280	615 -	-	11500 20900 16700 -	53'11" 40'4" 415 Sq. Ft.	4-7.9mm-1000 2-7.9mm-750 2-20mm-150	ALL	"			
MESSER: ME-210C-1 (2) DAIM. BENZ: DB-605B FIGHTER-BOMBER	- 1350/18700 -	370/21000/- -	11.8/19000 35000 -	- -	2350/245/- 1350/240/- 1240/245/-	- -	906 506 506	- 1100 2850	-	15500 21500 21600 23500	53'9" 40'5" 400 Sq. Ft.	2-7.9mm-500 2-13mm-150 2-20mm-300	ALL	"			
MESSER: ME-110A-1 (2) DAIM. BENZ: DB-603A-2 FIGHTER-BOMBER	- 1700/19000 -	395/22000/- -	11.5/19000 39000 -	- -	2130/250/- 1190/255/- 1110/250/-	- -	906 506 506	- 1100 2850	-	18000 26000 21000 26000	53'8" 40'10" 400 Sq. Ft.	2-20mm - 2-7.9mm - 2-13mm -	ALL	"			

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CONFIDENTIAL MONTHLY CHART AIRPLANE CHARACTERISTICS & PERFORMANCE

GERMANY - BOMBERS

PAGE 13

DATE 1 May, 1944

MODEL & MFR. ENGINE	ENG. RATINGS NORMAL ALT. MIL./CRIT. ALT. TAKE-OFF S. L.	SPEEDS HIGH/ALT./B.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			WEIGHT EMPTY GROSS WEIGHT GROSS WEIGHT	DIMENSIONS SPAN LENGTH WING AREA	ARMAMENT NO. OF GUNS -CAL.-RDS. OF AMM. PER GUN	COMBAT PROT. TYPE	REFERENCE
					MAXIMUM NORMAL (WITH MAX. BOMBS)	MAXIMUM NORMAL (WITH MAX. BOMBS)	NONE NORMAL MAXIMUM					
<u>DOENER DO-217E</u> (2) BMW - 801A BOMBER	1365/14250 1465/17750 1530/ S.L.	310/17000 -	21/17000 22500 -	1650 -	2150/220/ 1010/255/ 960/215/-	- 1650 780	NONE 1400 6600	22500 34000 32000 34000	62'5" 56'6" 590 Sq. Ft.	1-20mm-60 2-7.9-1000 4-7.9mm - 2-13mm-450	ARMOR	TECH DATA FILES
<u>DOENER WULF 200E</u> (4) BRAMO-PAPNIR "323R" BOMBER	765/14000 940/12000 985/ S.L.	235/13000 95	11.7/15000 21500 -	- -	2430/170/ 1250/170/ 1140/215/-	- 2112 1105 1004	3300 3300 11000	47200 - 50500	108'10" 78'0" 1200 Sq. Ft.	2-20mm-200 4-7.9mm-500 2-13mm-150	ARMOR	"
<u>HEINDEL 111E</u> (2) DB-601A BOMBER	850/15250 1035/13100 1085/ S.L.	274/12300 85	16/15000 23600 -	2200 1800	2640/230/ 1600/215/ 1290/195/-	- 1321 912 848	NONE 1400 6200	14400 26600 25300 31000	73'10" 53' 8" 940 Sq. Ft.	1-20mm-200 5-7.9mm-500 1-13mm-325	ALL	"
<u>HEINDEL 177</u> (2) DB-610 BOMBER-RECON.	- 2800/17000 -	305/20000 -	29/17000 32000 -	- -	3560/210/ - 580/210/-	EST. 3080 3080 600	1100 15200 22000	43000 68000 68000 -	103'6" 67'5" 1095 Sq. Ft.	EST. 6/10-13mm and 20mm.	ALL	"
<u>HENSCHEL HS-129</u> (2) GROMP-REUNE 11M BOMBER	660/13100 800/8000 800/ S.L.	275/9000 -	7/10000 21500 -	3000 1800	690/150/ - 440/150/-	- 240 160 160	220 220 770	9300 - 11100 12000	44'6" 33'4" 305 Sq. Ft.	2-7.9mm-1000 2-20mm-200 1-30mm-30	ALL	"
<u>JUNKERS JU-52/3M</u> (3) BMW - 132A TROOP TRANSPORT	- 660/ S.L.	165/S.L. -	- 21000 -	1920 1800	790/132/ 530/132/-	- 640 435	- 22 TROOPS	- 23100 23100	95'10" 62'10" 1190 Sq. Ft.	- 5-7.9mm-	NONE	"
<u>JUNKERS 86P-1</u> (2) JUNKERS JU-207A PRESS. CABIN BOMBER	800/26000 1000/26000 1000/ S.L.	290/30000 -	- 42000 -	1960 2280	1700/-/ 1500/210/-	640 580 -	NONE 1750 2200	- 22900 -	78'10" 53'10" 900 Sq. Ft.	NONE	NONE	"
<u>JUNKERS 87D</u> (1) JUNKERS JU-211P DIVE BOMBER	1175/11300 1300/12500 1360/ S.L.	255/13500 -	19/15000 18500 NONE	- -	1220/180/ 720/180/ 620/185/-	360 204 204	NONE 1400	8900 11500 12600 14300	45'4" 36'6" 335 Sq. Ft.	4-7.9mm-1000	ALL	"
<u>JUNKERS 82A-5</u> (2) JUNKERS JU-211P BOMBER	- 1075/13300	273/14000 -	31.8/17500 28000 -	3000 1640	1853/224/ 1195/230/ 540/225/-	- 1190 770 445	NONE 2200 6400	26500 26000 27600	66'10" 47'0" 590 Sq. Ft.	1-20mm- 7-7.9mm-	ALL	"
<u>JUNKERS-188</u> (4) BMW SO1 G-2 BOMBER	- 1530/20000	325/20000 -	- 34000 -	- -	800/254/ -	990 640 imp.	- 3800	- -	72'6" 49'0" 600 Sq. Ft.	1-20mm - 3-13mm -	ALL	"

* ESTIMATED

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CONFIDENTIAL MONTHLY CHART AIRPLANE CHARACTERISTICS & PERFORMANCE

JAPANESE AIR FORCE

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(REVISED) DATE: 1 May, 1944

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/PT. 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 SPAN LENGTH WING AREA	ARMAMENT NO. OF GUNS -CAL.-RDS. OF AMM. PER GUN	COMBAT PROT. TYPE	REFERENCE	
					MAXIMUM NORMAL (WITH MAX. BOMBS)	MAXIMUM SERIAL (WITH MAX. BOMBS)	NONE NORMAL MAXIMUM					WT. EMPTY WEIGHT DESIGN GROSS WEIGHT
TYPE 0 F ZEKE ONE NAKAJIMA SAKAE 12 MK-1 FIGHTER	950/13750	326/16000/-	2750/S.L. 38500	-	1180/116/- 895/116/-	225* 139	-	3718 6136 5555	39'5" 29'7" 218 Sq. Ft.	2-7.7mm - 500 2-20mm-60	NONE	For. Equip.
TYPE 0 F HAMP ONE NAKAJIMA SAKAE 21 FIGHTER	1020/8400 950/S.L.	328/16600/- 65	3410/S.L. 35200	-	1680/116/- 1180/153/-	228* 134	-	3913 6331 5750	36'2" 29'9" 238 Sq. Ft.	2-7.7mm - 600 2-20mm-100	NONE	" "
TYPE 3 F TONY ONE TYPE 2 KAWASAKI FIGHTER	1100/-	370/18000	-	-	1050/- / - 700/- / -	192	-	5650 5800	38'4" 30'0"	4-12.7mm -	ARMOR L.P.	" "
TYPE 2 F TOJO ONE 1450 NAKAJIMA FIGHTER	1150/-	360/12300	-	-	-	197 128	-	5200 6596 6080	31'0" 29'3" 185 Sq. Ft.	2-7.7mm -	ARMOR L.P. TANKS (INEFFECTIVE)	" "
TYPE 2 2NF SICK TWO MITSU 2 FIGHTER	945/17800 1050/8000	330/18000/-	34000	-	850/- / -	302	-	11500	50'0" 37'0" 335 Sq. Ft.	4-12.7mm- 1-37mm-	NONE	" "
TYPE 1 F OSCAR TYPE 99 FIGHTER	950/15000 990/S.L.	315/15000/-	35000	-	1225/175/-	257* 116	-	3490 5700 4520	37'7" 29'0" 237 Sq. Ft.	2-13mm-220	L.P. TANKS (INEFFECTIVE) 13mm ARMOR	" "
TYPE 97 F NATE ONE HIKARI FIGHTER	800/13000	280/13000/-	3600 FPM 33000	-	800/200/- 460/233/-	161* 80	-	3250 5000 4400	35'7" 21'1"	4-7.7mm - 550	NONE	" "
TYPE 0 FFP RUFY ONE NAKAJIMA SAKAE 12MK-1 SEAPLANE FIGHTER	950/13750	280/16000/-	2500/S.L. 36500	-	1180/116/- 895/116/-	225** 139	-	4116 6136 5920	30'5" 33'2" 218 Sq. Ft.	2-7.7mm-500 2-20mm-60	NONE	" "
TYPE 0 2EB HELEN TWO NAKAJIMA 1450 MEDIUM BOMBER	1150/S.L.	299/19700/-	17.1/20000 29200	-	2040/233/-	1200 1200	2290 2290	14730 26491	68'0" 54'0" 755 Sq. Ft.	3-7.7mm- 1- 20mm-	L.P. TANKS (INEFFECTIVE) ARMOR	" "
TYPE 97 2EB SALLY MK2 TWO TYPE 100 MITSU. MEDIUM BOMBER	1150/-	285/13000/-	30000	-	950/- / -	-	-	21500	74'8" 46'0"	5-7.7mm - 1-12.7mm-	L.P. TANKS (INEFFECTIVE)	" "

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* - JETTISONABLE FUEL TANK.
** - EXTRA FUEL CARRIED IN MAIN FLOAT.
/ - THIS IS 0 SSF ZEKE EQUIPPED WITH 1 MAIN AND TWO WING TIP FLOATS.

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

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(REVISED) DATE: 1 May, 1944

MODEL & MFR. ENGINE CONT. NO. PLANES	ENG. RATINGS NORMAL/ALT. MIL./CRIT. ALT. TAKE-OFF/S. L.	SPEEDS HIGH/ALT./HP 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 @ SPEEDS % POWER		FUEL with BOMBS at		WEIGHTS		DIMENSIONS SPAN LENGTH WING AREA	ARMAMENT NO. OF GUNS -CAL.-RDS. OF AMM. PER GUN	COMBAT PROT. TYPE	REFERENCE
					MAXIMUM NORMAL WITH MAX. BOMBS)	MAXIMUM NORMAL (WITH MAX. BOMBS)	NONE NORMAL MAXIMUM	WT. EMPTY WEIGHT DESIGN GROSS WEIGHT						
TYPE 1 ZEB BETTY TWO MAEHI 15 MEDIUM BOMBER	- 1320/19800 1320/	288/13500/- -	- 30000 -	- -	3000/180/- 1800/180/- -	1553 756 -	- 1760 -	11722 27500 20442	81'10" 66'3" -	3-7.7mm-300 1-20mm - 90	L.P. TANKS (INEFFECTIVE)	For. Equip.		
TYPE 99 ZEB LILY Mk2 TWO NAKAJIMA HA115 LIGHT BOMBER	- 1150/ S.L.	312/17000/- -	10.4/20000 31900 -	- -	1020/232/- -	450 450 -	800 1600 -	9790 15500 -	56'10" 43'4" 443 Sq. Ft.	4-7.7mm- -	NO ARMOR L.P. TANKS (INEFFECTIVE)	" "		
TYPE 99 DB VAL ONE KAISEI 44 DIVE BOMBER	990/6500 1075/6500 1000/	299/6200/- -	- 27000 -	- -	1320/110/- 875/190/- -	313 271 -	- 811 -	5900 - 8070	46'0" 37'0" -	3-7.7mm - -	NONE	" "		
TYPE 97 TB KATE ONE NAKAJIMA SAKAE 11 TORPEDO BOMBER	1000/- -	230/10000/- -	- 24000 -	- -	1100/164/- 980/179/- -	- - -	800 1750 -	4830 7230 8350	52'0" 34'0" 370 Sq. Ft.	2-7.7mm-600 1-7.7mm-300	NONE	" "		
TYPE 0 ZER DINAH TWO-102 MITSUBISHI RECONNAISSANCE	- 1050/- -	315/23000/- -	- -	- -	- -	- -	- -	- -	50'0" 36'0" -	NONE	NONE	" "		
TYPE 2 R JUDY ONE EI ATSUBA RECONNAISSANCE	965/- 1200/	- -	- -	- -	- -	149* 275	- -	5115 8018	37'9" 33'6" 254 Sq. Ft.	3-7.7mm - -	-	" "		
TYPE 0 FP PETE ONE SUISEI 13 REC. FLOAT PLANE	- -	220/9000/- -	- 26000 -	- -	- -	- -	- -	4192 5623	37'0" 26'6" -	2-7.7mm-500 1-7.7mm-700	NONE	" "		
TYPE 97 KAPP MAVER FOUR-KIUSSEI 43 FLYING BOAT	- 900/13000 -	160/13000/- -	- 26000 -	- -	2400/110/- 1900/127/- 1750/110/-	2350 1747 1747	- - 3500	25000 50000 44100	131'0" 82'0" -	4-7.7mm - -	NONE	" "		

* - JETTISONABLE FUEL TANK.

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

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RUSSIAN AIR FORCE

DATE: 1 March, 1944

MODEL & MFR. ENGINE	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 ENGE OUT	T. O. & LAND T. O. OVER 30' OBS. LAND OVER 30' OBS.	RANGE with FUEL with BOMBS at WEIGHTS			DIMENSIONS SPAN LENGTH WING AREA	ARMAMENT NO. OF GUNS -CAL.-RDS. OF AMM. PER GUN	COMBAT PROT. TYPE	REFERENCE	
					MAXIMUM NORMAL (WITH MAX. BOMBS)	MAXIMUM NORMAL (WITH MAX. BOMBS)	NONE NORMAL MAXIMUM					WT. EMPTY WEIGHT WEIGHT
I-16 M-63 Engine Fighter	- 1000/13500 -	270/ S.L. 300/15000 -	5/15000 22000 NONE	- -	320/179/ 215/258/ -	- 67 -	- -	5000 5000 -	29'2" 20'4" 125 Sq. Ft.	4-7.6 mm	-	ATS ETUSA 9/28/43
I-17 M-100 Engine Fighter	- 1100 -	306/12780/ -	5.2/12750 36000 NONE	- -	611/273/ -	- -	- 220 -	- -	33'2" 21'4" 191 Sq. Ft.	1- MG	-	M.I.D. 10/10/40
MI9-3 M-35 Engine Fighter	1200/19500 -	375/22000/ 310/ S.L.	5.5/20000 35000 NONE	- -	470/230/ 390/210/ -	105 105 -	- -	6700 6700 -	31'6" 26'7" 140 Sq. Ft.	2-7.6 mm 1-12.7 mm	ARMOR	ATS ETUSA 9/28/43
IL-2 (Stormovik) M-38 Engine Dive Bomber	1600/6500 -	250/ S.L./ 275/8000/ -	6.5/10000 -	- -	330/170/ 260/235/ -	120 120 -	1100 1100 -	12500 12500 -	47'11" 36'0" 365 Sq. Ft.	2-20 mm 2-7.6 mm	ARMOR L.P. TANKS S.P. GLASS	"
TB-6 Four, M-34 Engines Heavy Bomber	- 600 -	250/ - / - -	24/13000 26000 -	- -	1250/ - / - -	- -	6600 -	- -	- -	6 MG	-	M.I.D. 1/26/41
SB-3 Two, M103 Engines Bomber	950/11800 -	230/S.L./- 260/11000/ 69	10/11000 26200 -	- -	1085/150/ 850/220/ 480/150/ -	420 420 212	1320 1320 2640	10033 17000 ? 17000 ? -	66'11" 41'0" 615 Sq. Ft.	2-7.6mm-950 1-7.6mm-1050 1-7.6mm-700	ARMOR L.P. TANKS	ATS ETUSA 9/28/43
BE-3P Two, M-87 Engines Bomber	1100/19700 -	270/16000/ -	16/16400 26500 -	- -	2500/160/ 1140/230/ 1000/210/ -	1000 802 540	3300 2200 6400	21750 18700 21750	70'2" 47'7" 705 Sq. Ft.	2-7.6mm-1100 2-7.6mm-1100 1-7.6mm- 650	-	"
PE-2 Two, M-105 Engines Dive Bomber	1050/12000 -	265/S.L./- 295/11000/ -	10/11000 -	- -	580/185/ 485/255/ -	358 358 -	2200 2200 -	16500 ? 16500 ? -	56'1" 41'5" 355 Sq. Ft.	3-7.6mm 1-12.7mm-	-	"
TB-7 Four, M-35A Engines Heavy Bomber	1200/19500 -	235/S.L./- 275/22000/ -	28.5/22000 32000 -	- -	2550/185/ 2200/235/ 1850/185/ -	2580 2580 1920	4400 4400 3500	63000 63000 63000	132'0" 74'0" 2050 Sq. Ft.	2-7.6mm- 400 1-20mm- 160 1-20mm- 200 2-12.7mm-200	-	"

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