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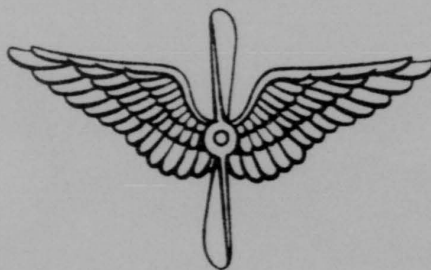
203-12  
1 June 1944

2-3578-93

EE-306-3  
FOREIGN

HISTORICAL  
**MONTHLY CHART  
AIRPLANE CHARACTERISTICS & PERFORMANCE**

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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.P. 380-5, DATED 28 SEPTEMBER 1942.

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MONTHLY CHART

BRITISH, FIGHTER

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BRITISH, FIGHTER

AIRPLANE CHARACTERISTICS & PERFORMANCE

DATE: 1 June 1942

MODEL & MFR. ENGINE	ENG. RATINGS NORMAL ALT. WIND CRIT. ALT. TAKE-OFF S. I.	SPEEDS HIGH ALT./HP LANDING	CLIMB TIME TO FT. SERV. CEIL. CEIL.-1.2 ENGR. OUT	T.O. & LAND T.O. OVER OF OBS. LAND OTHR OF OBS.	RANGE WITH STANDARD POWER		FUEL CONSUMPTION	BOMBS at	WEIGHTS WT. EMPTY WEIGHT WEIGHT	DIMENSIONS SPAN LENGTH WING AREA	ARMAMENT NO. OF GUNS -CALIBER OF MM. PER GUN	COMBAT PROT. TYPE	REFERENCES
					MINIMUM NORMAL WIND CORRECTED (WITH GALE BOMBS)	MAXIMUM NORMAL HEIGHT							
BLACKBURN Firebrand One Napier Sabre III	1670/16250 1920/16000 2250	18000/-	11.2/3000 31500	1750	-	1005/232/-	200	None	6200 12050	50'0" 57'6" 370 Sq. Ft.	4-20mm.-50		OSI 1/23/42 FMUSA Rept. 274
BLACKBURN Roc I One Eric.Percuss XII	905/6500 745/6500 830	205/1750/- 77	8.4/15000 18300	-	590/130/-	110	None	5167 8042	46'2" 35'7" 312 Sq. Ft.	4-303-600	None	MIC-311 11/7/42	
BLACKBURN Roc I One Eric.Percuss XII	905/6500 745/6500 830	225/2700/- 63	8.1/15000 19100	-	900/130/- 600/130/- 600/130/-	126 136 141	None	5940 8320 8376 8112	46'2" 35'7" 312 Sq. Ft.	4-303-600	Pilot Armor only	MIC-311 11/7/42	
BOULTON PAUL Defiant One RR-Merlin III	990/12250 1030/12250 880	304/17000/- 67	8.5/15000 30000	1500 2310	500/160/- 465/260/-	125 125	None	5938 7718	39'4" 35'0" 221 Sq. Ft.	4-303-600	Armor L.F. Tanks	S.A.C. 5/12/42	
BOULTON PAUL Defiant One RR-Merlin IX	1130/15000 1170/21000 1280	335/22000/-	7.0/15000 34200	1350 2370	480/175/- 370/275/-	125 125	None	6167 7765	39'4" 35'0" 221 Sq. Ft.	4-303		S.A.C. 5/12/42	
BRISTOL Seafighter Two Eric.Hercules XI	1200/14000 1510/11250 1590	324/11750/-	30000	1785 2580	1515/224/-	660	None	13931 21120	57'10" 41'6" 451 Sq. Ft.	4-20mm.-285 6-303-1000	Armor L.F. Tanks S.P. Glass	M.A.F. Dayton SAC 11/8/42	
BRISTOL Seafighter Two RR-Merlin IX	1180/15000 1170/21000 1280	329/20400/-	9.5/15000 30000	2070 2505	1510/222/-	660	None	12895 20374	57'10" 41'6" 451 Sq. Ft.	4-20mm.-285 6-303-1000	Armor L.F. Tanks S.P. Glass	M.A.F. thru Dayton SAC 11/8/42	
BRISTOL Seafighter Two Eric.Hercules VI	1300/13500 1530/15500 1610	333/15600/-	7.8/15000 27000	1845 2550	1180/243/-	660	None	21322	57'10" 41'6" 451 Sq. Ft.	4-20mm.-210 6-303-1000	Armor L.F. Tanks S.P. Glass	M.A.F. thru Dayton SAC -11/8/42	
DeHAVILLAND Mosquito Two RR-Merlin XII	1180/18000 1170/21000 1280	380/22000/-	7.7/20000 29500	2175 2535	1205/210/-	483	1000	11317 19822	54'2" 41'2" 450 Sq. Ft.	4-20mm.-150 4-303-500		M.A.F. thru Dayton SAC 11/8/42	
FAIRY Firefly One RR-Griffon II	1365/17000 1380/19000 1755	338/27000/-	10.2/20000 30600	1950	700/202/-	-	None	8731 11372	44'6" 37'0" 328 SQ. FT.	2-20mm.-175 2-20mm.-150		OSI 1/23/42 FMUSA Rept. 274	

\* Estimate

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**MONTHLY CHART** BRITISH, FIGHTER  
**CONFIDENTIAL AIRPLANE CHARACTERISTICS & PERFORMANCE**

MODEL & MFR. ENGINE CONT. NO. PLANES	ENG. RATINGS NORMAL ALT. ML. CRIT. ALT. TAKE-OFF S. L.	SPEEDS HIGH/ALT./BP. 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			WEIGHTS WT. EMPTY WEIGHT WEIGHT	DIMENSIONS SPAN LENGTH WING AREA	ARMAMENT NO. OF GUNS -CAL.-RDS. OF AMM. PER GUN	COMBAT PROT.	REFERENCE
					FUEL with		BOMBS at					
					NO. MAX. BOMBS	NO. MAX. BOMBS	NO. MAX. BOMBS					
FAIRY Fulmar II One RR-Merlin 30	1210/7250 1250/8750 1300	264/5600/- 75	20.3/20000 21000 -	- -	925/150/- -	186 -	None 500	7575 9980 -	46'0" 40'4" 378 Sq. Ft.	6-303-1000 or 4-50-500	Armor L.P. Tanks B.P. Glass	M.I.D. 11/7/42
HAWKER Hurricane IIB One RR-Merlin XX	1180/18000 1170/21000 1280	335/22000/- -	5.9/15000 36600 -	1260 1980	- 510/170/- 355/281/-	- 116 116	None None	5290 7200 7200	40'0" 31'5" 256 Sq. Ft.	12-303-300	Armor L.P. Tanks	B.L.C. 5/12/42
HAWKER Hurricane IIC One RR-Merlin XX	1180/18000 1170/21000 1280	327/20500/- -	- 36000	1770 2160	- 480/211/-	- 116	- None	5655 7560 -	40'0" 31'5" 256 Sq. Ft.	4-20mm.-120	Armor L.P. Tanks	Air Tech. Sect. EPOUSA Rept. No. 274 10/29/42
HAWKER Hurricane IID One RR-Merlin XX	1180/18000 1170/21000 1280	313/22000/- -	- 31600	- -	460/210/- -	- -	- None	- 7656 -	40'0" 31'5" 256 Sq. Ft.	2-303-600 2-40mm.-16	-	Air Tech. Sect. EPOUSA 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	414/21000/- 88	7.5/20000 31600 -	2500 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.P. 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 XLV	1200/16000 1235/17750 1185	373/19500/- -	5.2/15000 37600 -	- -	500/211/- -	102 -	- None	- 6212 -	36'10" 30'0" 212 Sq. Ft.	6-303-300	Armor L.P. Tanks B.P. Glass	AAF Dayton Flight Test
SUPERMARINE Spitfire VB One RR-Merlin XLV	1200/16000 1235/17750 1185	371/20000/- -	6.6/20000 37700 -	1200 1830	480/185/- 335/310/-	102 102	- None	4935 6160 6160	36'10" 30'0" 212 Sq. Ft.	4-303-350 2-20mm.-50	Armor L.P. Tanks B.P. Glass	B.L.C. 5/12/42

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

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CONFIDENTIAL MONTHLY CHART BRITISH FIGHTER AIRPLANE CHARACTERISTICS & PERFORMANCE

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DATE: 1 June 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 w/RR & SPEEDS & POWER		FUEL CONSUMPTION	NO. OF BOMBS	at	WEIGHTS	DIMENSIONS SPAN LENGTH WING AREA	ARMAMENT NO. OF GUNS -CAL.-RDS. OF AMM. PER GUN	COMBAT PROT. TYPE	REFERENCE
					MAXIMUM NORMAL	MAXIMUM SERVING								
SUPERMARINE Spitfire V One RR-Merlin XL7	1200/16000 1235/17750 1185	369/300/-	7.0/20000 36500	- -	1085/306/- 1474/-/-	- -	- -	- -	- -	5067 6737	36'10" 30'0" 212 Sq. Ft.	4-20mm.-120	Armor L.P. Tanks	Air. Tech. Sec ETOUSA Rept. No. 274 10/29/42
SUPERMARINE Spitfire VII One RR-Merlin 61	1190/25000 1300/21000 1375	405/25500/-	7.0/20000 16050	2085 2220	- 732/233/-	- 114	- -	- -	- -	6031 8000	40'2" 31'4" 218 Sq. Ft.	4-303-350 2-20mm-135	Armor L.P. Tanks B.P. Glass	M.A.P. thru Dayton SAC 11/8/42
SUPERMARINE Spitfire IX One RR-Merlin 61	1190/25000 1300/21000 1375	406/25500/-	6.2/15000 16750	1875 2160	- 472/228/-	- 102	- -	- -	- -	7160	36'10" 31'0" 212 Sq. Ft.	4-303-350 2-20mm.-120	Armor L.P. Tanks B.P. Glass	M.A.P. thru Dayton SAC 11/8/42
SUPERMARINE Spitfire XI One RR-Griffon II	1675/16250 1500/16250 2010	391/18000/-	- 33500	1980 2160	- 500/210/-	- 156	- -	- -	- -	9100	40'6" -	6-20mm.-120	Armor L.P. Tanks B.P. Glass	M.A.P. thru Dayton SAC 11/8/42
WESTLAND Welkin Two RR-Merlin 61	1190/25000 1300/21000 1375	431/25000/-	6.23/20000 14000	1090 2850	- 1560/215/-	- 564	- -	- -	- -	12875 16700	70'3" 41'6" 160 Sq. Ft.	6-20mm.-120	-	M.A.P. thru Dayton SAC 11/8/42
WESTLAND Whirlwind Two RR-Peregrine I	860/13500 890/15000 855	338/15800/-	8.4/20000 30000	1890 2250	590/190/- 370/305/-	163 103	- -	- -	- -	8040 10115 10222	45'0" 32'3" 231 Sq. Ft.	4-20mm.-60 or 12-303-	Armor L.P. Tanks B.P. Glass	B.A.C. 5/12/42
BRISTOL BLenheim IVF Two Mercury XV	825/14000	260/12000/-	11.4/15000 21200	- -	- -	- -	- -	- -	- -	9236 11100 12660	56'4" 42'7" 169 Sq. Ft.	4-303-500 1-303-400 1-303-	-	Air Info. Inv. Navy Dept. Wash. D.C. 8/43
DEHAVILLAND Mosquito X Two Merlin 73	1560/12000 1370/21000	447/25000/-	- 10000	- -	- -	- -	- -	- -	- -	11421 19700	54'2" 41'2" 154 Sq. Ft.	4-303-500 4-20mm-150	-	AS ABOVE

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**MONTHLY CHART**  
**CONFIDENTIAL AIRPLANE CHARACTERISTICS & PERFORMANCE**

BRITISH, BOMBARDMENT

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BRITISH, BOMBARDMENT

DATE: 1 June 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 T. O. OVER W/ OBS. LAND OVER W/ 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 SERIAL MAXIMUM					WT. EMPTY WEIGHT WEIGHT
ARMS. -WHITWORTH Whitley V Two RR-Merlin X	960/13000 1010/17750 1075	225/17000/- -	27.5/15000 19000 -	- -	1935/170/- 1365/170/- 470/170/-	- -	1250 3500 7000	18745 32000 -	81'0" 69'4" 1233 Sq. Ft.	1-.303-600 1-.303-1000	-	Air Tech. Sec. STOUSA Rept. No. 274 10/29/42
AVRO Lancaster I Four RR-Merlin XX	1180/18000 1170/21000 1280	280/20000/- -	18.5/15000 a. 25000 b. 29500	4200 2550	3000/185/- 2510/185/- 1130/185/-	3038 2556 1233	None 4750 12750	35300 60000 60000	102'0" 66'11" 1297 Sq. Ft.	4-.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 Bris. Hercules VI	1300/14500 1590/15500 1610	291/15500/- -	20/15000 a. 21000 b. 25000	3000 3400	2950/195/- 2150/195/- 1075/195/-	3038 2556 1200	None 3900 12750	37970 63000 63000	102'0" 66'11" 1297 Sq. Ft.	4-.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" 44'7" 503 Sq. Ft.	2-.303-400 2-.303-500	-	Air Tech. Sec. STOUSA 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	8250 11400 11400	56'4" 42'9" 469 Sq. Ft.	4-.303	Armor L.P. Tanks	Aeroplane 3/23/40 M. I. D. 3/28/41
BRISTOL Blenheim V Bristol Mercury XV	- 825/13000 920	214/6000/- -	- 19500	- -	1230/170/- -	- -	1000	- 17040 -	56'4" 42'9" 469 Sq. Ft.	1-.303-400 1-.303-1000	-	Air Tech. Sec. STOUSA Rept. No. 274 10/29/42
BRISTOL Buckingham Two Bris. Centaurus IV	- 1780/18250 -	330/19250/- -	16.0/15000 a. 23500 b. 27200	4350 2400	3500/215/- 1670/281/- 1670/281/-	1890 1260 1260	None 4000 4000	21271 36800 36550	71'9.6" 46'5" 710 Sq. Ft.	8-.303-1000 2-.303-700	-	A. D./R. D. T. I M.A.P.
DEHAVILLAND Mosquito MK V Two RR-Merlin XXI	1180/18000 1170/21000 1280	379/22200/- 102	1/1700 25800	2650 2400	1720/-/- 1640/-/-	643 443	2000 2500	15129 20540 21310	54'2" 41'2" 450 Sq. Ft.	None	Armor L.P. Tanks S.P. Glass	I.T.M. #11 DeH. Canada
FAIRY Albacore One Bris. Taurus XII	985/3750 1130/3500 1085	170/4200/- 66-83	10.3/10000 11400	- -	790/114/- 680/105/-	234 -	None 1500	7103 9900 12100	50'0" 40'0" 607 Sq. Ft.	1-.303-400 2-.303-750	Armor L.P. Tanks	MID-ONI 11/7/42
FAIRY Barracuda One RR-Merlin 30	1210/1250 1260/1750 1300	235/11000/- -	6.7/6000 21000	- -	655/138/- -	- -	1610	9142 13177	48'2" 40'6" 444 Sq. Ft.	2-.303 1-.303-600 (Recom. Only)	-	Air Tech. Sec. STOUSA Rept. No. 274 10/18/42

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

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BRITISH BOMBARDMENT

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BRITISH BOMBARDMENT

AIRPLANE CHARACTERISTICS & PERFORMANCE

DATE: 1 June 1944

MODEL & MFR. ENGINE CONT. NO. PLANES	ENG. RATINGS NORMAL ALT. MIL. CRIT. ALT. TAKE-OFF S. L.	SPEEDS HIGH ALT. HP LAN. DSG	CLIMB TIME TO FT. SERV. CEIL. CBL-1/2 ENGS. OUT	T.O. & LAND T.O. OVER 30 OBS. LAND OVER 30 OBS.	RANGE with SPEEDS & POWER			WEIGHTS W. EMPTY WEIGHT WEIGHT	DIMENSIONS SPAN LENGTH WING AREA	ARMAMENT NO. OF GUNS CAL. BDS. OF AMM. PER GUN	COMBAT PROT. TYPE	REFERENCE
					MAXIMUM NORMAL	MEDIUM MAX. A.	LONG NORMAL MAXIMUM					
FAIRY Swordfish One Bris. Pegasus III or 30	750/1750	140/300/-	45.0/17000	-	1200/103.5	1000	1500	7000 7000 9000	45'0" 36'4" 607 Sq. Ft.	2-303-600	L.P. Tanks Only	112-011 117/12
HANLEY PAGE Halifax II Four En-Gerlin XI	1100/12000 1170/21000 1200	250/17000/-	20.0/17000 a. 21000 b. 20700	3900 1550	1700/195/-	2250	13000	50000 59000 59000	99'0" 70'1" 1250 Sq. Ft.	10-303-1000 1200 Hcs. Res.	Armor L.P. Tanks B.P. Glass	A.S./R.S.T.
HANLEY PAGE Halifax III Four Bris. Hercules VI	1300/13500 1550/15000 1610	270/15000/-	25.0/15000 a. 19000 b. 19000	3000 2700	2510/-/-	2860	13000	57000 57000 63000	99'0" 70'1" 1250 Sq. Ft.	10-303-1000 1200 Hcs. Res.	Armor L.P. Tanks B.P. Glass	A.S./R.S.T. M.A.P.
HANLEY PAGE Hampton Two Bris. Pegasus XVIII	750/11750 805/15000 905	230/13000/-	26.0/15000 19000	4300	1720/-/-	785	5000	32500 32500	67'0" 53'4" 737 Sq. Ft.	6-303	L.P. Tanks	B.S.C. 5/12/42
SHERT Shetland Four Bris. Centaurus 3 S.M.	1650/19000 2000/20000 2000	210/3250/-	6.7/5000 a. 12500 b. 17000	-	3020/-/-	7000	None	17000 12000 12000	120'0" 110'0" 2636 Sq. Ft.	1-50-1000 1-50-950	-	A.S./R.S.T. M.A.P.
SHERT Stirling I Four Bris. Hercules XI	1200/11000 1510/11250 1390	265/10500/-	34.2/19000 a. 16500 b. 20500	4200 3300	2125/200/-	3250	2250	58000 7000 7000	99'0" 87'0" 1460 Sq. Ft.	6-303-1000	Armor L.P. Tanks B.P. Glass	A.S./R.S.T. M.A.P.
SHERT Stirling III Four Bris. Hercules VI	1300/13500 1530/13500 1610	225/13500/-	25.0/15000 a. 12000 b. 22000	4200 3300	2115/200/-	3250	1500	70000 70000 70000	99'0" 87'0" 1460 Sq. Ft.	10-303-1000	Armor L.P. Tanks B.P. Glass	A.S./R.S.T. M.A.P.
SHERT Sunderland III Four Bris. Pegasus XVIII	750/11750 805/15000 905	196/3000/-	1.0/5000 a. 11700 b. 15600	9900	2970/-/-	3060	None	58000 50000 58000	112'0" 85'4" 1627 Sq. Ft.	6-303-1000 1-303-700	Armor L.P. Tanks B.P. Glass	A.S./R.S.T. M.A.P.
SHERT Sunderland IV Four Bris. Hercules XVII	1675/15000	264/3500/-	6.5/5000 a. 11500 b. 19000	6600	3135/-/-	4000	None	73350 73350 73350	112'0" 85'4" 1627 Sq. Ft.	6-303-1000 1-303-700	Armor L.P. Tanks B.P. Glass	A.S./R.S.T. M.A.P.
VICKERS Warwick I Two P.W. Wasp SIAI-G	1500/14000	213/14000/-	15.0/15000 20000	4500 3300	1780/180/-	1465	3075	16000 16000 16000	98'0" 72'4" 1000 Sq. Ft.	1-303-2000 1-303-1000	-	A.S./R.S.T. M.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, BOMBARDMENT AIRPLANE CHARACTERISTICS & PERFORMANCE

PAGE 6 DATE: 1 June 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 20' OBS.	RANGE with FUEL with BOMBS at WEIGHTS SPEEDS & POWER			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					
VICKERS Warwick II Two Bris. Centaurus IV	- 1775/1400	277/20000/-	20.0/15000 a. 23000 b. 26500	3000 3300	1675/180/- 1380/180/- 1070/180/-	1458 1225 978	5100 6500 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 Ia Two Bris. Pegasus XVIII	750/14750 895/15000 965	235/15500/-	25/10000 15000	-	2550/165/- 1805/165/- 1200/165/-	- - -	1000 2750 1500	18800 - 30000	86'10" 60'10" 850 Sq. Ft.	6-.303-1000	-	Air Tech. Sec ETOUSA Rept. No. 274 10/29/42
VICKERS Wellington II Two RR-Merlin IX	960/13000 1010/17750 1075	244/17000/-	33.5/15000 18000	4050	1580/195/-	-	900 737	32000 32000	86'10" 60'10" 850 Sq. Ft.	4-.303-1000 2-.303- 500	Yes	B.A.C. 5/12/42
VICKERS Wellington III Two Bris. Hercules XI	1200/14000 1510/11250 1590	263/11500/-	29.0/15000 20000	-	2200/185/- 1500/185/-	- -	1500 1500	21220 - 34500	86'10" 60'10" 850 Sq. Ft.	8-.303-1000	-	Air Tech. Sec ETOUSA Rept. No. 274 10/29/42
VICKERS Wellington VI Two RR-Merlin IX	1035/30000 1035/30000 1225	312/32000/-	65/35000 a. 36700 b. 38500	3078 2355	- - -	- - -	- - 4500	20290 - 31500	86'2" 62'5" 840 Sq. Ft.	4-.303-1000	-	A. D./R. D. T. I M.A.P.
VICKERS Wellington X Two Bris. Hercules VI	1300/13500 1530/15500 1610	265/15500/-	22.0/15000 a. 20500 b. 24000	2850 2550	2110/185/- 1490/185/-	1236 900	1500 1500	21110 - 34500	86'10" 60'10" 850 Sq. Ft.	6-.303-1000 2-.303- 500	-	A. D./R. D. T. I M.A.P.

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



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CONFIDENTIAL MONTHLY CHART AIRPLANE CHARACTERISTICS & PERFORMANCE

BRITISH - FIGHTERS (U.S. BUILT)

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DATE: 1 June 1944

MODEL & MFR. ENGINE CONT. NO. PLANES	ENG. RATINGS NORMAL ALT. HIG. CRIT. ALT. TAKE-OFF S. L.	SPEEDS HIGH ALT. HP LANDING	CLIMB TIME TO FT. SERV. CEIL. CEIL. - 1/2 ENGR. OLT	T.O. & LAND T.O. OVER 30' OBS. LAND OVER 30' OBS.	RANGE with SPEEDS & POWER			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	MAXIMUM NORMAL	NOTE NORMAL MAXIMUM					
BELL P-400 "ATACORRA -1" One P-1710-EL	1000/11000 1150/11800 1150	350/12100	5.1/10000 2900	-	-	100-(U.S.) 120-(U.S.)	5875 7582 7835	34'0" 28'0" 213 Sq. Ft.	4-.50-1000 2-.50- 270 2-20mm- 60	-	AAEE-774 APU-10,34	
CURTISS H-61A "TOMAHAWK I" One P-1710-C-15	- -	-	-	-	-	-	-	-	2-.50 4-.303	-	AAEE-763,a	
CURTISS H-61A "TOMAHAWK II" One P-1710-C-15	- -	313/16000 85	7.7/15000 31100	1320	-	158 101	- -	- -	2-.50 4-.30	-	AAEE/765	
CURTISS H-67A "FIFTYHAWK I" One P-1710-F5R	1000/11000 1150/11800 1150	350/14100 322/16800	14.2/20000 28700	-	* b	1060/-/- 650/-/-	199 118	5973 5866 8180	37'4" 31'9" 236 Sq. Ft.	6-.50-2160T	-	AAEE/783
CURTISS H-67A "FIFTYHAWK II" One P-1650-1	1010/16000 1120/18500 1300	354/20100	10.9/20000 34300	-	-	209 158	6182 8910	- -	- -	-	-	AAEE/783,a
DOUGLAS DB-7 "HAWK I" Two R-1830-3301G	1000/12500 1050/13100 1200	-	-	-	-	326	11775 15332	61'4" 47'3" 1465 Sq. Ft.	-	-	-	-
DOUGLAS DB-7 "HAWK II" Two R-2600-45B	1275/11500 1600	329/13000	-	2610 **	-	326 458	14114 17741 18751	48'0"	-	-	-	AAEE/771
GRUMMAN G-36 "MARTLET I" One R-1820-G205A	900/15200 1200	-	-	1560	-	-	- -	- -	4-.50-	-	-	AAEE/762
GRUMMAN G-36 "MARTLET II" One R-1830-5301G	1000/12500 1050/13100 1200	-	-	1710	-	160 130	5189 7790 7550	38'3" 29'1" 261 Sq. Ft.	6-.50-225	-	-	AAEE/762,a
GRUMMAN G-36 "MARTLET III"	-	NO DATA AVAILABLE	AVAILABLE	-	-	-	-	-	-	-	-	-

\*\*Tested with Jettisonable fuel tank Gr. Wt. 8840#  
 \*\*At 17500# and 0° flap  
 b-Allowance made for warm up, take off, etc.  
 \*Still air range.  
 a-Another test at 7300# gave 331 MPH  
 #At weight = 6366#

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**MONTHLY CHART** BRITISH - FIGHTERS (U.S. BUILT)  
**CONFIDENTIAL AIRPLANE CHARACTERISTICS & PERFORMANCE**

DATE: 1 June 1944

MODEL & MFR. ENGINE	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. & L. LAND T. O. OVER 75' 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
					3 SPEEDS & POWER MAXIMUM NORMAL (WITH MAX. BOMBS)	with MAXIMUM NO. MAX. (WITH MAX. BOMBS)	with SOME NORMAL MAXIMUM				
GRUMMAN WARTLETT IV	-	-	-	-	-	-	-	5591	-	-	AAEE/762, 3
One B-1320-205A-3	-	-	-	-	-	141 (U.S.)	-	7760	-	-	-
NORTH AMERICAN NA-73 "MUSTANG 1"	1000/11000 1150/11800 1150	370/15000	7.3/15000 30000	1920	360 / - / -	155 (U.S.)	-	8625	-	-	AAEE/781
One V-1710-F3R	-	-	-	-	-	-	-	-	-	-	-

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

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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 June 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 30' OBS. LAND OVER 30' OBS.	RANGE with			WEIGHTS WT. EMPTY WEIGHT WEIGHT	DIMENSIONS SPAN LENGTH WING AREA	ARMAMENT NO. OF GUNS -CAL.-RDS. OF AMM. PER GUN	COMBAT PROT. TYPE	REFERENCE
					with	with	with BOMBS					
CONT. NO. PLANES					MAXIMUM NORMAL (WITH MAX. BOMBS)	MAXIMUM NORMAL (WITH MAX. BOMBS)	RUWE NORMAL MAXIMUM					
LOCKHEED 414 "HUDSON III" Two R-1820-2205A	900/15200 1200	200/15100	- -	2100 -	13 hrs. 7.5 hrs.	295 241	- 1050	- -	65'6" 44'3" 551 Sq. Ft.	2-.303-1500 3-.303-900 Tot. 2-.303-2000	-	AAEE/739, 2.
LOCKHEED 414 "HUDSON IV" Two R-1830-8C36	- -	260/10000	14.0/10000	2620 -	- -	- -	- -	20000 Test	- -	- -	- -	AAEE/739, 2.
LOCKHEED 414 "HUDSON V" Two R-1830-83C1-B	1000/12500 1050/13100 1200	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
LOCKHEED VEGA 37 "VENTURA" Two R-2800-61A49	1500/7500 1850/2700 1450	- -	- -	- -	- -	- 565	- 2500	17168 26700	- -	4-.303-1000 2-.303- 750 2-.50- 250	-	AAEE/790
MARTIN 167 MARYLAND I Two R-1830-8C36	900/12000 1050/7700	294/9000 80	12.1/15000 27250	1560 -	1870/179/ - -	750 U.S. -	- -	11000 17890 15870 17890 Test	61'4" 46'8" 542 Sq. Ft.	6-.303-500	-	AAEE/765
MARTIN 167 MARYLAND II Two R-1830-	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	NO DATA AVAILABLE
MARTIN 187 BALTIMORE I Two R-2600-45B5	1275/11500 1600	- -	- -	- -	- -	- -	- -	- -	- -	4-.30 4-.30-500 2-.30-100 2-.30-100	-	-
MARTIN 187 BALTIMORE II Two R-2600	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	NO DATA AVAILABLE
MARTIN 187 BALTIMORE III Two R-2500-45B5	1275/11500 1600	301/10400	10.5/11000 23500	- -	770/ - / - -	488 -	2000 -	20330 -	- -	- -	- -	AAEE/782, a.
NORTH AMERICAN NA90 MITCHELL I Two R-2600-9	1350/13000 1160/12000 1700	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	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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CONFIDENTIAL MONTHLY CHART AIRPLANE CHARACTERISTICS & PERFORMANCE

BRITISH - BOMBARDMENT (U.S. BUILT)

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BRITISH - BOMBARDMENT (U.S. BUILT)

DATE: 1 June 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.-12 ENGS. OUT	T.O. & LAND T.O. OVER 50 OBS. LAND OVER 50 OBS.	RANGE with SPEEDS % POWER			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)	FUEL with NORMAL (WITH MAX. BOMBS)	BOMBS at NONE NORMAL MAXIMUM					
BOEING 299T "FORTRESS II" Four B-1820-65	1000/25000 1200/25000 1200	300/25000/-	15.1/15000	2850 2120	2650/190/- 2230/190/- 1815/190/-	2520 2120 1738	- 3700 7400	22065 - -	- - -	2-.50-150 2-.50-550 2-.50-200 2-.50-	-	AAEE/770,a and A3/8171
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	250/14000/-	-	-	2200/-/-	-	8000	56000	-	4- 303-500 + 600 res. 4- 303-2200 4- 303-1000 2- 303- 500	-	R. P. U.S. No 44
CONSOLIDATED-1b-30 "LIBERATOR III" Four B-1830-13	1100/25000 1200/25000 1200	305/25000/-	25.0/10000	3685 -	3000/-/- 2180/-/- 1540/-/-	3120 2270 1610	None 4000 8000	33500	-	-	-	AAEE/769,a
DOUGLAS DB-7 "BOSTON I" Two B-1830-8C30	900/12000 1000/11500 1050	307/10000/-	15/20000	2025 -	2110/-/- **750/-/- 880/190/-	-	-	-	-	-	-	-
DOUGLAS DB-7 "BOSTON II" Two B-1830	-	-	-	-	-	-	-	-	-	-	-	-
DOUGLAS DB-7 "BOSTON III" Two B-2600-A5B	1275/11500 1600	312/13000/-	-	3540 a. 2835 b.	620/170/- 880/170/-	512 382 526	- 2000 2000	15718 23000 21550 22400	61'4" 47'3" 465 Sq. Ft.	4-.303-500 4-20mm-50 2-.303-500	-	AAEE/752,c
LOCKHEED 214 "HUDSON I" Two B-1820-G102A	900/6700 1100	235/8000/-	-	2970 -	-	-	-	-	-	-	-	AAEE/739
LOCKHEED 214 "HUDSON II" Two B-1820-G102A	900/6700 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  
**CONFIDENTIAL AIRPLANE CHARACTERISTICS & PERFORMANCE**

BRITISH - BOMBARDMENT (U.S. BUILT)

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BRITISH BOMBARDMENT (U.S. BUILT)

DATE: 1 June 1944

MODEL & MFR. ENGINE	ENG. RATINGS NORMAL/ALT. MIL. CRIT. ALT. TAKE-OFF S. L.	SPEEDS HIGH/ALT./HP. LANDING	CLIMB TIME TO FT. SERV. CEIL. CELL - 1/2 ENGS. OUT	T. O. & LAND T. O. OVER 59 OBS. LAND OVER 59 OBS.	RANGE with FUEL with BOMBS at			WEIGHTS WT. EMPTY WEIGHT WEIGHT	DIMENSIONS SPAN LENGTH WING AREA	ARMAMENT NO. OF GUNS -CAL. -RDS. OF -CAL. -RDS. OF AMM. PER GUN	COMBAT PROT. TYPE	REFERENCE
					RANGE NORMAL (WITH MAX. BOMBS)	MAXIMUM NORMAL (WITH MAX. BOMBS)	NONE NORMAL MAXIMUM					
NORTH AMERICAN NA-90 MITCHELL II Two B-2500-13	1350/13000 1160/12000 1700	294/11200	10.8/15000 26700	- -	- -	- -	- -	25000 - test	- - -	2-.50 - 2-.50 - 1-.30 -	- -	AARS/751a
VOUGHT SIKORSKY V-156 CHEGAPRAKE I One B-1535-3B10	750/4800 825	222/1700	20.0/10000 16000	2300	1170/-/-	225 (U.S.)	500	9010	- - -	4-.50- 1-.30-1400	-	AARS/773
VOUGHT -SIKORSKY KINGFISHER I One B-785-2B-2	- -	** 163/3900	** 29.2/10000 11600	** 2130	730/106/- 120/106/-	210 100	- 500	3600 4990 5025	- - -	1-.30-500 1-.30-600	-	AARS-789
VULTURE YONGRANCE I One B-2600-45B-5	- -	- -	- -	- -	- -	- -	- -	- -	- -	6-.30-	-	

\* At 8910ft  
 \*\* At max. gross weight

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CONFIDENTIAL MONTHLY CHART GERMANY - FIGHTERS PAGE 12  
**AIRPLANE CHARACTERISTICS & PERFORMANCE**

DATE: 1 June 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 30' OBS. LAND OVER 30' OBS.	RANGE with FUEL with BOMBS at			WEIGHTS WT. EMPTY GROSS WEIGHT GROSS WEIGHT	DIMENSIONS SPAN LENGTH WING AREA	ARMAMENT NO. OF GUNS -CAL.-RHS. OF AMM. PER GUN	COMBAT PROT. TYPE	REFERENCE
					MAXIMUM NORMAL (WITH MAX. BOMBS)	MAXIMUM NORMAL (WITH MAX. BOMBS)	NONE NORMAL MAXIMUM					
POCCE-WULF 190A-3 (1) BMW - 801D FIGHTER	1150/- 1600/14000 1695/S.L.	395/17000/- 110	6.25/18000 38000 NONE	2250 2700	820/220/- 380/315/- 140/230/-	216 138 138	NONE NONE NONE	6210 9200 8500 9800	34'6" 29'2" 203 Sq. Ft.	2-7.9mm-1000 2-20mm-250 2-20mm-60	ALL	TECH. DATA FILES
JUNKERS JU8405 (2) BMW - 801D NIGHT FIGHTER	1150/18000 1530/20000 1695/S.L.	347/17500	10.3/18500 30200	2310 2055	1620/213/- 800/230/-	918 411	NONE	21000 27800 25000	66'0" 47'0" 390 Sq. Ft.	3-20mm-120 7-7.9mm-1000	ALL	"
MESSERSCHMITT ME-109F (1) DB-601E FIGHTER	1220/15000 1390/14500 1395/S.L.	390/22000/-	5.7/18000 39000 NONE	1800 2100	1050/205/- 600/205/- 542/200/-	185 185 105	NONE -	4740 EST. 6480 6420 7000	32'6" 29'3" 172 Sq. Ft.	2-7.9mm-500 1-20mm-200	ALL	"
MESSER: ME-109G2,4,46 (1) DAIM. BENZ: DB605A FIGHTER	1330/16000 1520/15000 1455/S.L.	395/22000/-	6.3/18000 37500 NONE	1800 2100	1020/210/- 115/316/- 935/210/-	185 105 105	NONE -	4883 7230 6670 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 36400 NONE	-	1700/205/- 905/205/-	675 290 280	615 -	14500 20900 16700	53'11" 40'4" 115 Sq. Ft.	2-7.9mm-1000 2-7.9mm-750 2-20mm-180	ALL	"
MESSER: ME-210C-1 (2) DAIM. BENZ: DB-605B FIGHTER-BOMBER	1350/18700	370/21000/-	11.8/19000 39000	-	2550/245/- 1350/210/- 1240/245/-	906 506 506	- 1100 2850	15500 21500 21600 23500	53'9" 40'3" 140 Sq. Ft.	2-7.9mm-500 2-13mm-250 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 24000 26000	53'8" 49'10" 100 Sq. Ft.	2-20mm - 2-7.9mm - 2-13mm -	ALL	"

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MONTHLY CHART  
**CONFIDENTIAL AIRPLANE CHARACTERISTICS & PERFORMANCE**

GEMALTY - BOMBERS

PAGE 13

DATE: 1 June 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 50' OBS.	RANGE with FUEL with BOMBS at		WEIGHTS WEIGHT EMPTY GROSS WEIGHT 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>DOERNER DO-217E</u> (2) BMW - 801A BOMBER	1365/11250 1165/17750 1550/ S.L.	310/17000	21/17000 22500	4650	2150/220/- 1010/255/- 960/215/-	1650 780 780	NONE 4400 5600	22500 34000 32000 34000	62'5" 56'6" 590 Sq. Ft.	1-20mm-60 2-7.9-1000 4-7.9mm - 2-12mm-450	ARMOR	TECH DATA FILES
<u>POCKE-WULF 200K</u> (4) BRAMO-PAPNIR "323R" BOMBER	765/14000 940/12000 985/ S.L.	235/13000 95	11.7/15000 21500	-	2130/170/- 1250/170/- 1110/215/-	2112 1105 1004	3300 3300 11000	47200 -	108'10" 78'0" 1200 Sq. Ft.	2-20mm-200 4-7.9mm-500 2-12mm-450	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/- 1250/195/-	1321 912 842	NONE 4400 6200	11400 22600 25300 31000	73'10" 53' 8" 940 Sq. Ft.	1-20mm-200 5-7.9mm-500 1-12mm-325	ALL	"
<u>HEINDEL 177</u> (2) DB-610 BOMBER-RECON.	- 2800/17000	305/20000	29/17000 32000	-	3560/210/- -	EST. 3080 3080 600	1100 15200 22000	43000 68000 68000 -	103'6" 67'5" 1095 Sq. Ft.	EST. 6/10-12mm and 20mm.	ALL	"
<u>HENSCHEL HS-129</u> (2) Gnome-Rhone 11M BOMBER	660/13100 800/9000 800/ S.L.	275/9000	7/10000 21500	3000 1800	690/150/- 440/150/-	210 160 160	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	750/132/- 530/132/-	610 435	22 TROOPS	23100 23100	95'10" 62'0" 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	1980 2280	1700/-/- 1500/210/-	640 580	NONE 1760 2200	- 22900 -	78'0" 53'0" 900 Sq. Ft.	NONE	NONE	"
<u>JUNKERS 87D</u> (1) JUNKERS JU-211J 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 2200 4400	8900 11500 12600 14300	45'4" 36'6" 335 Sq. Ft.	4-7.9mm-1000	ALL	"
<u>JUNKERS 88A-5</u> (2) JUNKERS JU-211F BOMBER	- 1075/13300	273/11000	31.8/17500 28000	3000 1640	1253/224/- 1135/230/- 540/225/-	1190 770 445	NONE 2200 6100	26500 26000 27600	66'0" 47'0" 590 Sq. Ft.	1-20mm- 7-7.9mm-	ALL	"
<u>JUNKERS-188</u> (2) BMW 801 G-2 BOMBER	- 1530/20000	325/20000	- 34000	-	800/254/-	990 640 Imp.	- 3800	- -	72'6" 49'0" 600 Sq. Ft.	1-20mm - 3-12mm -	ALL	"

\* ESTIMATED

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CONFIDENTIAL MONTHLY CHART AIRPLANE CHARACTERISTICS & PERFORMANCE

JAPANESE AIR FORCE

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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 40 OBS. LAND OVER 40 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)					WGT. EMPTY WEIGHT DESIGN GROSS WEIGHT	
TYPE 0 F ZEKE ONE NAKAJIMA SAKAE 12 NX-1 FIGHTER	- 950/13750	326/16000/-	2750/ S.L. 38500	-	1180/119/- 895/116/-	225* 139	- -	3718 6136 5555	39'5" 29'7"	2-7.7mm - 500 2-20mm-60	NONE	For. Equip.
TYPE 0 F HAMP ONE NAKAJIMA SAKAE 21 FIGHTER	- 1020/6400 950/ S.L.	328/16600/-	3440/ S.L. 35200	-	1680/116/- 1180/133/-	225* 134	- -	3913 6331 5750	36'2" 29'9"	2-7.7mm - 600 2-20mm-100	NONE	" "
TYPE 3 F TONY ONE TYPE 2 KAWASAKI FIGHTER	- 1100/-	370/18000	-	-	1050/- / - 700/- / -	- 192	- -	6650 3800	38'4" 30'0"	4-12.7mm -	ARMOR L.P.	" "
TYPE 2 F TOJO ONE 1150 NAKAJIMA FIGHTER	- 1150/-	360/12300	-	-	-	197 128	- -	5200 6596 6080	31'0" 29'3"	2-7.7mm - 2-12.7mm -	ARMOR L.P. TANKS (INEFFECTIVE)	" "
TYPE 2 ZNF NICK TWO MITSU 2 FIGHTER	945/17800 1050/8000	330/18000/-	34000	-	850/- / -	302	-	11500	50'0" 37'0"	4-12.7mm - 1-37mm -	NONE	" "
TYPE 1 F OSCAR TYPE 99 FIGHTER	- 950/15000 990/ S.L.	315/15000/-	35000	-	1225/175/-	297* 119	- -	3190 5700 4520	37'7" 29'0"	2-13mm-220	L.P. TANKS (INEFFECTIVE) 13mm ARMOR	" "
TYPE 97 F WATE ONE HIKARI FIGHTER	800/13000	230/13000/-	3600 FPM 33000	-	800/200/- 460/233/-	161* 80	- -	3250 5000 4400	35'7" 24'4"	4-7.7mm - 550	NONE	" "
TYPE 0 FFP RUPE ONE NAKAJIMA SAKAE 12A-1 SEAPLANE FIGHTER	- 950/13750	280/16000/-	2500/ S.L. 36500	-	1180/119/- 895/116/-	225** 139	- -	4115 6436 5920	39'5" 33'2"	2-7.7mm-500 2-20mm-60	NONE	" "
TYPE 0 ZEB HELEN TWO NAKAJIMA 1150 MEDIUM BOMBER	- 1150/ S.L.	299/19700/-	17.1/20000 29200	-	2040/233/-	1200 1200	- 2290 2290	11730 26491	68'0" 54'0"	3-7.7mm - 1-20mm -	L.P. TANKS (INEFFECTIVE) ARMOR	" "
TYPE 97 ZEB SALLY MK2 TWO TYPE 100 MITSU. MEDIUM BOMBER	- 1150/	285/13000/-	30000	-	950/- / -	-	- 6600	21500	74'8" 46'0"	5-7.7mm - 1-12.7mm -	L.P. TANKS (INEFFECTIVE)	" "

\* - REVISED

\*\* - JETTISCABLE FUEL TANK.  
\*\*\* - EXTRA FUEL CARRIED IN MAIN FLOAT.  
# - THIS IS O SSP 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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MODEL & MFR. ENGINE	ENG. RATINGS NORMAL ALT. MIL. CRIT. ALT. TAKE-OFF S. L.	SPEEDS HIGH ALT. HP LANDING	CLIMB TIME TO FT. SERV. CEIL. CEIL.—12 ENGS. OUT	T. O. & LAND T. O. OVER BY ENGS. LAND OVER BY OBS.	RANGE with @ SPEEDS % POWER		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)	ONE NORMAL MAXIMUM	WT. EMPTY HEIGHT DESIGN GROSS WEIGHT						
TYPE 1 ZEB BETTY TWO KASEI 15 MEDIUM BOMBER	- 1320/19800 1320/	286/13500/- -	- 30000 -	- -	3000/120/- 1800/180/-	1350 750	- 1700	- -	11722 27500 20412	81'10" 66'3" -	3-7.7mm-300 1-20mm - 90	L.P. TANKS (INEFFECTIVE)	For. Equip.	
TYPE 99 ZEB MIY ME2 T.M. TYPE 2 NAKAJIMA LIGHT BOMBER	- 1150/ S.L.	312/17000/- -	10.1/20000 31300 -	- -	1020/232/- -	650 550	800 1600	- -	9790 15500 -	50'10" 43'11" 443 sq. Ft.	4-7.7mm- -	NO ARMOR L.P. TANKS (INEFFECTIVE)	" "	
TYPE 99 DB VAL ONE KASEI 14 DIVE BOMBER	990/8500 1075/8500 1000/	239/6200/- -	- 27000 -	- -	1520/110/- 875/190/-	313 271	- 811	- -	5900 - 8070	48'0" 37'0" -	3-7.7mm - -	NONE	" "	
TYPE 97 TB MATE ONE NAKAJIMA SARAE 11 TORPEDO BOMBER	- 1000/-	230/10000/- -	- 21000 -	- -	1100/164/- 960/179/-	- -	800 1750	- -	4830 7230 8330	52'0" 34'0" 370 sq. Ft.	2-7.7mm-600 1-7.7mm-300	NONE	" "	
TYPE 0 GER DINAH TWO-102 MITSUBISHI RECON-AISSANCE	- 1050/-	315/23000/- -	- -	- -	- -	- -	- -	- -	- -	50'0" 36'0" -	NONE	NONE	" "	
TYPE 2 R JUDY ONE 21 ATSUTA RECON-AISSANCE	965/- 1200/	- -	- -	- -	- -	448* 275	- -	- -	5415 6045 -	37'9" 33'6" 254 sq. Ft.	3-7.7mm - -	-	" "	
TYPE 0 FP PETE ONE SUISEI 13 REC. FLOAT PLANE	- -	220/9000/- -	- 25000 -	- -	- -	- -	- -	- -	4192 - 5623	37'0" 26'6" -	2-7.7mm-500 1-7.7mm-700	NONE	" "	
TYPE 97 LEFB MAVIS FOUR-KASEI 13 FLYING BOAT	- 900/13000 -	160/13000/- -	- 25000 -	- -	2100/110/- 1900/127/- 1750/110/-	2350 1747 1747	- 3500	- -	25000 50000 44100	131'0" 82'0" -	4-7.7mm - 1-20mm -	NONE	" "	
TYPE 78 JILL ONE KASEI 25 TORPEDO BOMBER	- -	- -	- -	- -	- -	- -	- -	- -	- -	48'6" 35'0" -	1-7.7mm- -	NONE	" "	

\* - JETTISONABLE FUEL TANK.

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

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**MONTHLY CHART** RUSSIAN AIR FORCE PAGE 16

**CONFIDENTIAL** RUSSIAN AIR FORCE **AIRPLANE CHARACTERISTICS & PERFORMANCE**

DATE: 1 June 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--RDS. OF AMM. PER GUN	COMBAT PROT. TYPE	REFERENCE		
					with		NONE					WT. EMPTY WEIGHT	
					MAXIMUM NORMAL	MAXIMUM NORMAL							NORMAL MAXIMUM
I-16 M-63 Engine Fighter	- 1000/13500 -	270/S.L. 300/15000 -	5/15000 22000 NONE	- -	320/170/ 245/258/	- -	67 67	- -	5000 5000	29'2" 20'11" 125 Sq. Ft.	4-7.6 mm	-	ATS STOUSA 9/28/43
I-17 M-100 Engine Fighter	- 1100	306/12780/ -	5.2/12780 36000 NONE	- -	641/273/ -	- -	- -	- -	- -	33'2" 24'11" 191 Sq. Ft.	4- 110	-	M.I.D. 10/10/40
MIG-3 M-35 Engine Fighter	1200/19500 -	375/22000/ 310/S.L.	8.5/20000 35000 NONE	- -	470/230/ 390/310/	- -	105 105	- -	6700 6700	34'6" 26'7" 140 Sq. Ft.	2-7.6 mm 1-12.7 mm	ARMOR	ATS STOUSA 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" 38'0" 365 Sq. Ft.	2-20 mm 2-7.6 mm	ARMOR L.P. TANKS B.P. GLASS	"
TB-6 Four, M-34 Engines Heavy Bomber	- 600	250/-/- -	24/13000 26000	- -	1250/-/- -	- -	- -	- -	- -	- -	6 MG	-	M.I.D. 4/26/41
SB-3 Two, MIO3 Engines Bomber	950/11800 -	230/S.L./ 260/14000/- 69	10/14000 25213	- -	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 STOUSA 9/28/43
BE-3F Two, M-27 Engines Bomber	1100/19700 -	270/16000/ -	16/16400 26500	- -	2500/160/ 1480/230/ 1000/210/	- -	1000 806 540	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	-	"
BE-2 Two, M-105 Engines Dive Bomber	1050/12000 -	265/S.L./ 295/11000/-	10/11000 -	- -	580/185/ 485/255/	- -	258 258	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/ 2200/238/ 1850/185/	- -	2580 2580 1920	4400 4400 8800	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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