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AAF AIR TECHNICAL SERVICE COMMAND

TACTICAL PLANNING

Characteristics & Performance Chart

NOTICE: This document contains information affecting the National Defense of the United States within the meaning of the Espionage Act, 50 U. S. C., 31 and 32, as amended. Its transmission or the revelation of its contents in any manner to an unauthorized person is prohibited by law.

PUBLISHED BY CHIEF, ENGINEERING DIVISION, AIR
TECHNICAL SERVICE COMMAND, WRIGHT FIELD, OHIO.

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DOD DIR 5200.9, 27 Sep 58

Attention
NEXT ISSUE WILL BE ON NEW FOR-
MAT AND WILL ELIMINATE MANY
MODELS, SEE WHAT'S NEW PAGE 2.

JANUARY 1946

BOMBER

CARGO

FIGHTER

GLIDER

MISC.

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BOMBERS

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FIGHTERS

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PAGE 2
AS OF:
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The following changes have been made since the September issue.



Flight Test Divisions of WRIGHT FIELD and various contractors have made available additional performance data on the P-47N, P-51 and the P-61C which have resulted in the following changes.

P-47N - Range and Endurance values for additional configurations and revision of early estimates now give a more complete picture of the P-47N performance. High Speeds at War Emergency, Military, and Max. Continuous powers have been reduced slightly to agree with current data.

P-51 - A change from AN-F-33 fuel to AN-F-28 fuel has necessitated a revision of War Emergency speeds and rates of climb. Effect of rockets on speed, radius of action and take-off distance is shown.

P-61C - This introduces a new model to the P-61 series. The major change is the replacement of the R-2800-65 powerplant, a two speed-two stage supercharged engine, by the R-2800-7J engine with turbo supercharging. This change is expected to give the airplane an increase in high speed and rate of climb for War Emergency and Military powers above 20,000 feet. Preliminary data shows little change in range and endurance.

Another major change in this issue is a general downgrading of the security classification of data presented which is shown on the Security Classification page.

B-29A-20DI

To facilitate future planning, an indication of planes to be retained in the post-war Air Force has been made in this issue. These planes have been segregated by cross hatching in the Model & Block Number column of the Characteristics Section. This information is current and will be revised as the requirements for the post-war Air Force are modified. FUTURE ISSUES OF THIS CHART WILL INCLUDE ONLY POST-WAR PLANES, therefore, it is recommended that this issue be retained as a reference for future comparisons.

A policy is now being formulated to revise the present format in favor of one which will give a broader range of data, a better over-all picture of each aircraft. Present plans call for the addition of new types of performance information along with more complete tactical analysis of each aircraft.

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Your

Change of address, comments and requests concerning this publication - should be forwarded to CG, ATSC, Wright Field, Dayton, Ohio.
Attn: TSESA-8 Flight Data Branch.

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SECURITY CLASSIFICATION TSEAL-6-AI

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MODEL & BLOCK NO.	ENGINE				PROPELLER		SIZE			WEIGHT		COMBAT CREW	FUEL		GUNS		BOMBS		CARGO		RADIO	REMARKS & REF.	PERFORM			MODEL & BLOCK NO.										
	ENGINE MFR.	MODEL	SUPERCHARGER	TAKE-OFF H.P.	WAR EMERG. /ALT.	MILITARY /ALT.	CONTINUOUS/ALT.	PROP. MFR.	PROP. DIA.	NO. OF BLADES	PROP. TYPE		SPAN	LENGTH	HEIGHT	TREAD	WING AREA	BASIC	COMBAT	WAR MAX.			TANK TYPE OR LOCATION	NO. OF TANKS & CAPACITY	NO. & LOCATION		CAL. /RDS. /TYPE	ROCKET INS.	NO. & SIZE (INTER.)	NO. & SIZE (EXT.)	MAX. LOAD	STATION	CAPACITY	MAX. LOAD	TAKE-OFF & LAND	HIGH SPEED & CLIMB
B-17																																				B-17
B-24																																				B-24
B-29																																				B-29
B-32																																				B-32
B-25																																				B-25
B-26																																				B-26
A-20																																				A-20
A-26																																				A-26
A-36																																				A-36
CARGO																																				CARGO
P-38																																				P-38
P-39																																				P-39
P-40																																				P-40
P-47																																				P-47
P-51																																				P-51
P-61																																				P-61
P-63																																				P-63
P-80																																				P-80
CG-4A																																				CG-4A
CG-13																																				CG-13
CG-15																																				CG-15

ALL REMARKS CLASSIFIED AS ITEMS TO WHICH THEY REFER.

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


NOTE:
ALL OTHER
GLIDER DATA
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(Page 11).....B-29 SAMPLE MISSION
(Page 40).....FIGHTER COMBAT RADIUS ACTION

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DOD DIR 5200.9, 2Z, Sec 5B.

Legend

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THE SECURITY CLASSIFICATION SHOWN ABOVE IS SPECIFICALLY FOR THE MATERIAL GIVEN IN THE JAN. 1946 ISSUE OF THE TACTICAL PLANNING CHARACTERISTICS AND PERFORMANCE CHART
EACH DOCUMENT SHOULD BE GRADED ACCORDING TO ITS OWN CONTENT AND NOT NECESSARILY ACCORDING TO ITS RELATIONSHIP TO ANOTHER DOCUMENT (PARAGRAPH 6 D, AR 390-5)

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FOREWORD

WARNING

THESE CHARTS CONTAIN CONSERVATIVE AVERAGES FOR TACTICAL PLANNING AND ARE NOT SUITABLE FOR AERODYNAMIC ANALYSIS.

This is a supplement to the Semi-Annual Engineering Characteristics and Performance Chart, Report #TSEAL-6-A2. This issue covers typical models now in operation and is kept up to date as new models and data are received by the AAF. The pages of the chart are divided in the center horizontally. The upper half pertains to "Characteristics", the lower half to "Performance". Major subdivisions are indicated by heavy vertical lines. Particular attention should be given to the selection of required data as all columns are not interrelated.

All data includes service allowances based on theater experience. Individual airplanes may vary appreciably. For detailed planning see the Technical Orders listed as references.

Performance is based on the requirements of Army-Navy Aeronautical Specification AN-H-8a; for "Handbooks, Pilot's Flight Operating Instructions" which sets forth specific allowances for practical service operation.

All speeds shown are true air speeds. Range and endurance are based on the following assumptions and include allowances for:

- (a) Warm up, taxi, run up, take-off, and landing. This is equal to ten minutes operation at S.L. with Max. Continuous power.
- (b) Fuel consumed in climb. Distance and time to climb are included in range and endurance.
- (c) Carrying bombs and droppable tanks entire flight.
- (d) 10% net ideal range and endurance for miscellaneous differences in airplanes, equipment, pilot technique, atmospheric conditions other than wind, unusable fuel, weight, and similar variables. For example range varies with the specific gravity of the fuel which varies with the outside air temperature.
- (e) Full fuel tanks. No consideration given to loading conditions requiring partially filled tanks.

This report supersedes previous TSEAL-6-A1 publications; superseded publications, if no longer officially required, will be destroyed in the manner prescribed in A. R. 380-5.

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DEFINITIONS

NOTE

Data shown in red is estimated or calculated, to be changed as soon as flight tests are completed. Data shown in black is flight tested.

	CHARACTERISTICS		PERFORMANCE
ENGINE & PROP			
Supercharger	"Turbo" indicates exhaust driven turbine with single speed integral diffuser.	TAKE-OFF & LANDING	Values are 125% of optimum at runway altitude of 3,000 ft. on standard day.
BHP/Alt	Brake horsepower per engine at critical altitudes with ram air.	Gross Weight	Arbitrary values for reference only.
T:	Maximum allowable power for take-off.	To clear 50'	Distance to take-off and land over 50 ft. obstacle, usually represents minimum airport requirements.
M:	Military power for combat at critical altitude shown, usually limited to 15 minute operation.	Landing Speed	Practical minimum for average pilot.
WE:	War Emergency power for combat at critical altitude shown, limited to 5 minute operation.	Ground run	Distance to take-off and land with no obstacles, minimum runway requirements.
C:	Maximum power for continuous operation.		
SIZE	Approximate dimensions for storage planning.	HIGH SPEED & CLIMB	Information is for clean, new airplane, engine powers are as defined in the "Characteristics" column.
S:	Span, specified wing tip to wing tip dimension.	Time to climb	From sea level to indicated altitude.
L:	Length, does not include protruding guns.		
H:	Height, maximum in three point position.	RANGE & ENDURANCE	See discussion in "Foreword", page 4.
T:	Tread, center line to center line of main wheels, outboard if dual.	Loading	Typical take-off weights are listed with corresponding, bomb or cargo, and fuel loads for the weight given.
W:	Standard aerodynamic surface area.		No consideration is given to loadings requiring partially filled fuel tanks.
WEIGHT	Approximate averages for planning purposes.	Max. Cont. Power	Maximum power for continuous operation to be used for emergency cruising only.
B:	Basic weight as defined in Technical Order AN-01-1B-40.	Max. Cruise Power	Maximum continuous operation with lean mixture setting.
C:	Combat weight, based on latest information from theaters and includes full built-in fuel, and arbitrary bomb, or cargo and ammunition loads.	Long Range	Practical maximum range for planning purposes under all conditions set forth in the "Foreword" and on this page. Round trip distance is given, target distance is approximately $\frac{1}{2}$ given range.
W:	War maximum weight, for special missions, limited by structural considerations, based on a positive maneuver factor of 2.0 unless otherwise noted. Wing tanks must be full.		
FUEL and OIL	Standard fuel tankage giving location and capacities. Maximum oil shown in parenthesis under type or location column.		
ARMAMENT	Normal installation at factory; local modifications may vary.		
BOMBS	Maximum rack capacity for standard bombs, no mixed sizes.		
Max. Load	Maximum plane capacity using internal and external racks. (Reduction in fuel may be necessary to stay within weight limitations.)		
CARGO	Cargo, passenger or troop capacities.		
Max. Load	Practical total cargo based on gross weight. Care should be taken not to exceed the War Maximum weight.		
RADIO	Resume' of typical models that may be installed.		

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PAGE 6
AS OF: 28 JULY 1945

BOEING (SEATTLE) "BO"

MODEL & BLOCK NO.	ARMAMENT			BOMBS			FUEL U.S. GAL. (MAXIMUM)
	NO GUNS & CALIBER	RDS. PER GUN	LOCATION & TYPE	INTERNAL NO. & SIZE	EXTERNAL NO. & SIZE	MAX. LOAD LB.	
B-17F-BO (-1 thru -27)	1-.30 2-.50 2-.50 2-.50	500 a 300 400 500	NOSE...FLEX. SIDE WAIST-FL. UPPER TURRET LOW BALL TRR. TAIL...FLEX.MT.	2-2000 6-1600 6-1000 12- 500 16- 250 24- 100	NONE	3600	2550
B-17F-BO (-30 thru -50)	NONE 1) 2) 2) 2)	NONE 300 b 300 400 500 565	NOSE...FLEX. RADIO COMPART. SIDE WAIST-FL. UPPER TURRET LOW BALL TRR. TAIL...FLEX.MT.	2-2000 6-1600 6-1000 12- 500 16- 250 24- 100	2-4000 2-2000 2-1600 2-1000	6-1600 2-4000x 17600	AS ABOVE
B-17F-BO -55 thru 1st.30 (-85)	2) 1) 2) 2) 2)	300 300 400 500 565	NOSE...FLEX. RADIO COMPART. SIDE WAIST-FL. UPPER TURRET LOW BALL TRR. TAIL...FLEX.MT.	A S	A B O V E		2550 (-55 thru -75) 3630 -50 & SUB.
B-17F-BO Last 70(-85) thru -130	3) 1) 2) 2) 2)	300 300 400 500 565	NOSE...FLEX. RADIO COMPART. SIDE WAIST-FL. UPPER TURRET LOW BALL TRR. TAIL...FLEX.MT.	AS ABOVE EXCEPT THAT EXTERNAL BOMB RACKS DELETED AFTER 15th. (-95)			3630
B-17G-BO (-1 thru -110)	2) 2) 1) 2) 2)	300 365 300 c 500 d 400 500 565 e	CHEEK...FLEX. CHIN TURRET RADIO COMPART. SIDE WAIST-FL. UPPER TURRET LOW BALL TRR. TAIL...FLEX.MT.	2-2000 6-1600 6-1000 12- 500 16- 250 24- 100	MOUNT LUGS & CONTROLS RETAINED	9600	AS ABOVE

NOTES: a NOSE GUN DELETED LAST 35(-27). b RADIO COMPART. GUN ADDED AFTER 16th(-30). c CHEYENNE TAIL MOUNT ON LAST 20(-90) & SUBSEQUENT. d EARLY MODELS CARRY 300 RDS./GUN. e RADIO COMP. GUN DELETED LAST 60(-105 & -110) AND SUBSEQUENT. x EXTERNAL.

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DOUGLAS (LONG BEACH) "DL"

MODEL & BLOCK NO.	ARMAMENT			BOMBS			FUEL U.S. GAL. (MAXIMUM)
	NO GUNS & CALIBER	RDS. PER GUN	LOCATION & TYPE	INTERNAL NO. & SIZE	EXTERNAL NO. & SIZE	MAX. LOAD LB.	
B-17F-DL -1 thru 1st.13(-10)	1-.30 2-.50 2-.50 2-.50	500 a 300 400 500	NOSE...FLEX. SIDE WAIST-FL. UPPER TURRET LOW BALL TRR. TAIL...FLEX.MT.	2-2000 6-1600 6-1000 12- 500 16- 250 24- 100	NONE	9600	2550
B-17F-DL Last 12(-10) thru -20	2) 1) 2) 2) 2)	300 300 400 500 565	NOSE...FLEX. RADIO COMPART. SIDE WAIST-FL. UPPER TURRET LOW BALL TRR. TAIL...FLEX.MT.	AS ABOVE	PROV. FOR EXTERNAL RACKS ON -20 & SUB.	AS ABOVE	AS ABOVE
B-17F-DL -25 thru 1st.21(-35)	A S	A B	O V E	AS ABOVE	PROV. FOR EXTERNAL RACKS	AS ABOVE	3630
B-17F-DL Last 19(-35) thru -65	3) 1) 2) 2) 2)	300 300 400 500 565	NOSE...FLEX. RADIO COMPART. SIDE WAIST-FL. UPPER TURRET LOW BALL TRR. TAIL...FLEX.MT.	A S	A B O V E		AS ABOVE
B-17G-DL (-1 thru -95)	2) 2) 1) 2) 2)	300 365 300 c 500 d 400 500 565 e	CHEEK...FLEX. CHIN TURRET RADIO COMPART. SIDE WAIST-FL. UPPER TURRET LOW BALL TRR. TAIL...FLEX.MT.	AS ABOVE EXCEPT ONLY MOUNT- ING LUGS & CONTROLS RETAINED FOR EXTERNAL BOMB RACKS ON (-80) & SUBSEQUENT MODELS.			AS ABOVE

NOTES: a NO NOSE GUN ON 1st.13(-10). b NOT CARRIED ON -1 & -5. c EARLY MODELS CARRY 300 RDS./GUN. d CHEYENNE TAIL MOUNT ON (-50) & SUBSQ. e RADIO COMPART. GUN DELETED (-75) & SUBSQ. x EXTERNAL.

VEGA (BURBANK) "VE"

MODEL & BLOCK NO.	ARMAMENT			BOMBS			FUEL U.S. GAL. (MAXIMUM)
	NO GUNS & CALIBER	RDS. PER GUN	LOCATION & TYPE	INTERNAL NO. & SIZE	EXTERNAL NO. & SIZE	MAX. LOAD LB.	
B-17F-VE (-1 thru -10)	1-.30 CAL.(300 RDS.) IN 1st. 12 AIRPLANES; NOSE GUN DELETED ON NEXT 28 THRU (-10). NO RADIO COMPARTMENT GUN UNTIL LAST 14(-15). OTHER ARMAMENT AS ABOVE.		NOSE GUN	2-2000 6-1600 6-1000 12- 500 16- 250 24- 100	NONE	9600	2550
B-17F-VE (-15 & -20)	2) 1) 2) 2) 2)	300 300 400 500 565	NOSE...FLEX. RADIO COMPART. SIDE WAIST-FL. UPPER TURRET LOW BALL TRR. TAIL...FLEX.MT.	AS ABOVE	EXTERNAL RACKS ON Last 31 (-20) & SUB.	AS ABOVE	AS ABOVE
B-17F-VE (-25 & -30)	A S	A B	O V E	AS ABOVE	b	2-4000 2-2000 2-1600 2-1000	2550 (B-17F-25) 3630 (B-17F-30)
B-17F-VE (-35 thru -50)	3) 1) 2) 2) 2)	300 300 400 500 565	NOSE...FLEX. RADIO COMPART. SIDE WAIST-FL. UPPER TURRET LOW BALL TRR. TAIL...FLEX.MT.	AS ABOVE EXCEPT ONLY MOUNT- ING LUGS & CONTROLS RETAINED FOR EXTERNAL BOMB RACKS ON (-35) & SUBSEQUENT MODELS.			3630
B-17G-VE (-1 thru -110)	2) 2) 1) 2) 2)	300 365 300 e 500 d 400 500 565 e	CHEEK...FLEX. CHIN TURRET RADIO COMPART. SIDE WAIST-FL. UPPER TURRET LOW BALL TRR. TAIL...FLEX.MT.	A S	A B	O V E	

NOTES: a NOT ON (-1) & (-5). b EARLY MODELS CARRIED 300 RDS./GUN. c RADIO GUN STORED (-35) thru 1st.16(-85);
LUGS & CONTROLS RETAINED. d RADIO GUN DELETED LAST 24(-85) & SUBSQ. e CHEYENNE TAIL MOUNT ON LAST 14(-35) & SUBSQ. x EXTERNAL.

GENERAL NOTE:

THE 6x1600 LB. ARMOR PIERCING BOMBS
MAY BE CARRIED, BUT BOMB RAIL LOAD
FACTORS AND CLEARANCES ARE REDUCED
AND MANEUVERING OF AIRPLANE MUST BE
LIMITED ACCORDINGLY.

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TACTICAL PLANNING CHARACTERISTICS & PERFORMANCE CHART																		
MODEL & BLOCK-NO.	ENGINE & PROP.			SIZE		WEIGHT		COMBAT CREW	FUEL & OIL		ARMAMENT			BOMBS		RADIO	REMARKS & REFERENCE	
	NUMBER	ENGINE MFR. MODEL SUPERCHARGER PROP. MFR. TYPE	B.H.P./ALT. T-TAKE OFF W-WAR EMERG. M-MILITARY C-CONTINUOUS	S-SPAN L-LENGTH H-HEIGHT T-TREAD W-WING AREA	B-BASIC C-COMBAT W-WAR MAX. M-MAX.LAND.	* NOTES	FUEL TANKAGE		NO. ROCKETS-SIZE-INSTALLATION			NO. AND SIZE		TYPICAL MODELS CARRIED				
							TYPE OR LOCATION ALSO (MAX. OIL)		NO. AND CAPACITY ALSO (MAX. FUEL)	NO. GUNS AND SIZE	RDS. PER GUN	LOCATION AND TYPE	INTERNAL		EXTERNAL	MAX. LOAD		
B-17F (LATEST MODEL)	4	WRIGHT R-1820-97 TURBO HAMILTON STD. 117" DIA. 3 BL. F.F., HYDROMATIC	T 1200/3 L W 1380/25000 M 1200/27000 C 1000/30000	S 103'9" L 74'9" H 19'1" T 21'2" W 1420 Sq.	B 38000 C 55000 W 72000 M 50000		MAIN - WINGS WING TIPS BOMB BAY (148)	6- 1730 2 x 540 2 x 410 (3630)	2) 300 1) 300 2) 400 2) 500 2) 585	d	NOSE - FLEX. SIDE WAIST-FLEX. RADIO COMPART. UPPER TURRET LOW BALL TURRET TAIL-FLEX. MOUNT	2-2000 6-1800 8-1000 12- 500 18- 250 2- 100	2-4000 2-2000 2-1800 2-1000 (SOME MODELS)	6-1600 2-4000 17000	SEE NOTE (A)	REFER TO PAGE 4 FOR "FOREWORD" REFER TO PAGE 3 FOR SECURITY CLASSIFICATION. REFER TO PAGE 5 FOR DEFINITIONS. REFER TO T.O. LISTED FOR DETAILED PLANNING. B-17F TECH. ORDER OI-20EF-1 (REV. 25 APRIL 1945) B-17G TECH. ORDER OI-20EG-1 (REV. 30 MAY 1945) (a) WAR EMERGENCY POWER PERMITTED ONLY WHEN CARBURETORS MODIFIED TO PARTS LIST NO. 395563-3. (b) EARLIER B-17G'S HAD CRITICAL ALTITUDE SHOWN FOR B-17F MODELS. (c) EARLY MODELS HAVE 74'9" LENGTH. (d) SEE PAGE OPPOSITE FOR DETAILED ARMAMENT BREAKDOWN.		
B-17G (LATEST MODEL)	4	AS ABOVE	T 1200/3 L W 1380/26700 M 1200/32700 C 1000/35200	S 103'9" L 74'9" H 19'1" T 21'2" W 1420 Sq.	AS ABOVE		AS ABOVE EXCEPT PROVISIONS ONLY, FOR THE BOMB BAY FUEL TANKS.	610 Tot. 2) 355 2) 600 2) 400 2) 500 2) 585	d	CHEEK - FLEX. CHIN TURRET SIDE WAIST-FLEX. UPPER TURRET LOW BALL TURRET CHEYENNE TAIL MT.	AS ABOVE	MOUNTING LUGS & CONTROLS RETAIRED FOR EXTERNAL RACKS.	9600	AS ABOVE				
			T W M C	S L H T W	B C W M													
			T W M C	S L H T W	B C W M													
			T W M C	S L H T W	B C W M													
COLUMN	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

MODEL & BLOCK-NO.	TAKE OFF & LANDING HARD SURFACE - NO WIND				HIGH SPEED & CLIMB CLEAN AIRPLANE AT NORMAL COMBAT WEIGHT								RANGE AND ENDURANCE STATUTE AIR MILES - NO WIND - NO ALLOWANCE FOR RESERVE										REMARKS			
	GROSS WEIGHT LB.	TO CLEAR 50'		GROUND RUN LANDING SPEED MPH	WEIGHT LB.	STD. ALT. FT.	WAR EMERG.		MIL. POWER		MAX. CONTIN. POWER		LOADING			MAX. CONTINUOUS POWER				MAX. CRUISE POWER		LONG RANGE				
		T.O. DIST. FT.	LAND DIST. FT.				HIGH SPEED MPH	RATE OF CLIMB FT. MIN.	HIGH SPEED MPH	RATE OF CLIMB FT. MIN.	HIGH SPEED MPH	RATE OF CLIMB FT. MIN.	TIME TO CLIMB MIN.	TAKE OFF WEIGHT LB.	BOMBS CARGO BASE LB.	TOTAL FUEL U.S. GAL.	at 10000 FT.		at 25000 FT.		at 10000 FT.			at 25000 FT.		
		RANGE MILES	ENDUR. HOURS				RANGE MILES	ENDUR. HOURS	RANGE MILES	ENDUR. HOURS	RANGE MILES	ENDUR. HOURS	RANGE MILES	ENDUR. HOURS	RANGE MILES	ENDUR. HOURS	RANGE MILES	ENDUR. HOURS	RANGE MILES	ENDUR. HOURS	RANGE MILES	ENDUR. HOURS				
B-17F	40000 45000 50000 55000 60000 65000	- 3200 4000 4800 5300	3000 4000 4500 - -	90 1200 1900 2400 3700 4900	30000 25000 20000 15000 10000 5000	312 314 308 289 278 295	850 1025 1150 1250 1350 1425	298 299 288 274 263 252	400 725 850 950 1050 1125	280 274 266 255 245 236	225 450 550 675 750 825	52.0 36.2 25.7 17.3 16.2 4.0	65500 59500 63500 65500	NONE NONE 4000 4000	3630 2810 2810 2810	1400 1400 1400 1400	- 6.1 6.1 6.0	1550 1550 1550 1500	5.2 5.2 5.0 5.0	2050 2050 2050 2000	10.1 10.1 10.1 10.0	2150 2100 2100 1850	9.9 9.9 9.9 8.7	3100 ^g 2800 2700 2500	17.1 ^g 17.4 17.4 17.3	(a) FIRST 3 HOURS OF FLIGHT AT 20000 FT. ALTITUDE. (f) FIRST 4 HOURS OF FLIGHT AT 20000 FT. ALTITUDE. (g) MAX. FERRY RANGE MAY BE RESTRICTED BY INSUFFICIENT OIL IF ENGINE IS NOT IN BETTER THAN AVERAGE CONDITION; OIL CONSUMPTION VARIES FROM 3 QT. TO 3 GAL. PER HR. PER ENGINE DEPENDING ON TIME SINCE OVERHAUL.
B-17G	30000 25000 20000 15000 10000 5000	AS ABOVE	AS ABOVE	AS ABOVE	30000 25000 20000 15000 10000 5000	310 302 291 288 288 228	820 900 1050 1200 1300 1300	295 287 277 267 256 248	400 750 900 900 1000 1100	280 255 295 234 250 222	225 210 385 500 580 620	54.0 37.0 26.0 15.0 7.0	65500 59500 63500 65500	NONE NONE 4000 6000	3630 2810 2810 2810	1400 1400 1400 1400	- 6.3 6.3 6.3	1500 1450 ^g 1450 ^g ABOVE PRAC. CEIL.	5.2 5.2 ^g 5.2 ^g ABOVE PRAC. CEIL.	2000 1950 1800	10.0 10.0 9.8	2350 1850 ^f ABOVE PRAC. CEIL.	8.5 8.7 ^f ABOVE PRAC. CEIL.	3100 ^g 2550 2250 2250	17.1 ^g 14.4 13.0 12.5	(a) MAX. FERRY RANGE MAY BE RESTRICTED BY INSUFFICIENT OIL IF ENGINE IS NOT IN BETTER THAN AVERAGE CONDITION; OIL CONSUMPTION VARIES FROM 3 QT. TO 3 GAL. PER HR. PER ENGINE DEPENDING ON TIME SINCE OVERHAUL.

NOTES:

(a)	ENGINE	WRIGHT R-1820-97	MODEL	HAMILTON STD.
	PROP.	TURBO	TYPE	F.F., HYDROMATIC
	WING AREA	1420 SQ. FT.	SPAN	103'9"
	WING TIP	2 x 540	BOMB BAY	2 x 410
	FUEL TANKAGE	6-1730	NO. AND CAPACITY	(3630)
	ARMAMENT	2) 300	NO. GUNS AND SIZE	2) 300
	BOMBS	2-2000	NO. AND SIZE	2-2000
	RADIO	SEE NOTE (A)	TYPICAL MODELS CARRIED	SEE NOTE (A)

RED FIGURES ARE PRELIMINARY: SUBJECT TO REVISION AFTER FLIGHT CHECK.



MANUFACTURED BY BOEING - DOUGLAS - VEGA

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CONSOLIDATED (SAN DIEGO) "CO"

MODEL & BLOCK-NO.	ARMAMENT			BOMBS			FUEL U.S. GAL. (MAXIMUM)
	NO GUNS & CALIBER	RDS PER GUN	LOCATION & TYPE	INTERNAL	EXTERNAL	MAX. LOAD LB.	
				NO & SIZE	NO & SIZE		
B-24D-CO D thru 1st. 94(-15)	1) 2) .50 2)	200 400 600	NOSE.....FLEX. UPPER TURRET TAIL TURRET	4-2000 8-1000 12- 500 12- 250 20- 100	NONE	8000	2364
B-24D-CO Last 36(-15) thru -20	1) 2) .50 1) 2)	200 400 100 600	NOSE.....FLEX. UPPER TURRET TUNNEL...FLEX. TAIL TURRET	A S	A B O V E		2364 Last 36(-15) 3614 -20 & sub.
B-24D-CO -25 thru 1st. 26(-110)	3) 2) .50 2) 1) 2)	100 250 400 100 600	NOSE.....FLEX. SIDE WAIST..FL. UPPER TURRET TUNNEL...FLEX. TAIL TURRET	4-2000 8-1600 8-1000 12- 500 12- 250 20- 100	NONE	12800	3614
B-24D-CO Last 9(-110) thru -170	3) 2) .50 2) 2)	100 250 400 508 600	NOSE.....FLEX. SIDE WAIST..FL. UPPER TURRET L.W. BALL THR. TAIL TURRET	A S	A B O V E		AS ABOVE
B-24J-CO (-1 thru -210) B-24L-CO (-1 thru -20) B-24M-CO (-1 thru -50)	2) 2) .50 2) 2)	600 250 ^b 400 508 600	NOSE TURRET SIDE WAIST..FL. UPPER TURRET L.W. BALL THR. See "a"	A S	A B O V E		AS ABOVE

NOTES: a B-24J's HAVE TAIL TURRET; B-24L's HAVE HAND HELD GUNS IN TAIL & B-24M's HAVE LIGHT WEIGHT TAIL TURRET.
 b NOT ON B-24D-25
 c B-24J's HAVE TAIL TURRET; B-24L's HAVE HAND HELD GUNS IN TAIL & B-24M's HAVE LIGHT WEIGHT TAIL TURRET.
 d E-6 MOUNT & INCREASE TO 500 RDS/GUN ON -210.

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MODEL & BLOCK-NO.	ARMAMENT			BOMBS			FUEL U.S. GAL. (MAXIMUM)
	NO GUNS & CALIBER	RDS PER GUN	LOCATION & TYPE	INTERNAL	EXTERNAL	MAX. LOAD LB.	
				NO & SIZE	NO & SIZE		
B-24D-CF (-1 & -5)	3) 2) 2) .50 1) 2)	100 250 400 100 600	NOSE.....FLEX. SIDE WAIST..FL. UPPER TURRET TUNNEL...FLEX. TAIL TURRET	4-2000 8-1000 12- 500 12- 250 20- 100	NONE	8000	3614
B-24D-CF (-10 thru -20)	A S	A B O V E				12800	AS ABOVE
B-24J-CF (-1 thru -105) B-24K-CF (-1 thru -15)	2) 2) .50 2) 2)	500 250 400 508 600	NOSE TURRET SIDE WAIST..FL. UPPER TURRET L.W. BALL THR. TAIL TURRET	A S	A B O V E (SEE a)		AS ABOVE
B-24K-CF (-20 thru -50)	2) 2) .50 2) 2)	600 500 ^b 400 508 600	NOSE TURRET S.WAIST-46 MT. UPPER TURRET L.W. BALL THR. TAIL TURRET	A S	A B O V E		AS ABOVE
B-24L-CF (-101)	A	S	A	B	O	V	E

NOTES: a B-10 BRACKLES FOR 8-1500 LB. BOMBS START ON 2101st. FORD KNOCK-DOWN SET.
 b B-24K-20 HAS PROVISIONS FOR ONLY 250 RDS. PER GUN AT SIDE WAIST POSITION.

DODGAS (Tulsa) "DT" & FORD (Willow Run) "FO"

MODEL & BLOCK-NO.	ARMAMENT			BOMBS			FUEL U.S. GAL. (MAXIMUM)
	NO GUNS & CALIBER	RDS PER GUN	LOCATION & TYPE	INTERNAL	EXTERNAL	MAX. LOAD LB.	
				NO & SIZE	NO & SIZE		
B-24E-DT & FO (-1 thru -15)	2) 2) .50 2) 2)	600 250 400 508 600	NOSE TURRET SIDE WAIST..FL. UPPER TURRET L.W. BALL THR. TAIL TURRET	4-2000 8-1600 8-1000 12- 500 12- 250 20- 100	NONE	12800	3614
B-24E-DT & FO (-20 thru -30)	2) 2) .50 2) 2)	600 500 ^b 400 508 600	NOSE TURRET S.WAIST-46 MT. UPPER TURRET L.W. BALL THR. TAIL TURRET	A S	A B O V E		
B-24J-DT (-1 thru -10) B-24J-FO (-1 thru -20)	B-24E-DT & FO AIRPLANES RECEIVE NEW B-24J DESIGNATIONS WHEN C-1 AUTOMATIC PILOT & M-9 BOMB SIGHT REPLACE A-5 AUTOMATIC PILOT & S-1 BOMB SIGHT.						
B-24L-FO (-1 thru -20) B-24M-FO (-1 thru -50)	ARMAMENT - BOMBS - FUEL SAME AS LISTED ABOVE.						
B-24L-FO (-1 thru -20) B-24M-FO (-1 thru -50)	2) 2) .50 2) 2)	600 500 400 508 600	NOSE TURRET S.WAIST-46 MT. UPPER TURRET L.W. BALL THR. TAIL-HAND HELD	4-2000 8-1600 8-1000 12- 500 12- 250 20- 100	NONE	12800	3614

NOTES: a B-10 BRACKLES FOR 8-1600 A.P. BOMBS START ON 2101st. FORD KNOCK-DOWN SET.
 b B-24M-20's HAVE PROVISIONS FOR ONLY 250 ROUNDS PER GUN.

NORTH AMERICAN (DALLAS) "NT"

MODEL & BLOCK-NO.	ARMAMENT			BOMBS			FUEL U.S. GAL. (MAXIMUM)
	NO GUNS & CALIBER	RDS PER GUN	LOCATION & TYPE	INTERNAL	EXTERNAL	MAX. LOAD LB.	
				NO & SIZE	NO & SIZE		
B-24F-NT	3) 2) 2) .50 2) 2)	250 TOT. 250 400 508 600	NOSE.....FLEX. SIDE WAIST..FL. UPPER TURRET L.W. BALL THR. TAIL TURRET	4-2000 8-1000 12- 500 12- 250 20- 100	NONE	8000	3614
B-24J-NT (-1 thru -5)	2) 2) .50 2) 2)	600 250 400 508 600	NOSE TURRET SIDE WAIST..FL. UPPER TURRET L.W. BALL THR. TAIL TURRET	A S	A B O V E		AS ABOVE
B-24K-NT (-10 thru -15)	A S	A B O V E				12800	AS ABOVE
B-24L-NT (-1 & -5)	A	S	A	B	O	V	E

NOTES: a LOWER BALL TURRET ON 5th. & SUBSEQUENT; NO TUNNEL GUN ON 1st. 4 ARTICLES.
 b B-24F-20-NT AIRPLANES ARE DESIGNATED B-24J-1, ETC. WHEN C-1 AUTOMATIC PILOT & M-9 BOMB SIGHT REPLACE A-5 AUTOMATIC PILOT & S-1 BOMB SIGHT.

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TACTICAL PLANNING CHARACTERISTICS & PERFORMANCE CHART

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MODEL & BLOCK-NO.	ENGINE & PROP.		SIZE		WEIGHT		COMBAT CREW	FUEL & OIL		ARMAMENT			BOMBS			RADIO	REMARKS & REFERENCE	
	NUMBER	ENGINE MFR. MODEL SUPERCHARGER PROP MFR. TYPE	B.H.P./ALT.		S-SPAN L-LENGTH H-HEIGHT T-TREAD W-WING AREA	B-BASIC C-COMBAT W-WAR MAX. M-MAX LAND		K NOTES	FUEL TANKAGE		NO. ROCKETS-SIZE-INSTALLATION			NO. AND SIZE				TYPICAL MODELS CARRIED
			T-TAKE OFF W-WAR EMERG. M-MILITARY C-CONTINUOUS	W-NONE					TYPE OR LOCATION ALSO (MAX. OIL)	NO AND CAPACITY ALSO (MAX. FUEL)	NO GUNS AND SIZE	RDS. PER GUN	LOCATION AND TYPE	INTERNAL	EXTERNAL	MAX. LOAD		
B-24D (LATEST MODEL)	PRATT-WHITNEY R-1830-43-01-85 TURBO HAMILTON STD. 11"7"DIAM.-3 BL. F.F., HYDROMATIC	T 1200/3 L W NONE M 1200/28500 C 1100/27000	S 110'0" L 56'4" H 18'0" T 25'8" W 1048 Sq. ft.	B 37000 C 56000 W 71200 * M 56000	10	ABSOLUTELY ESSENTIAL THAT WING, FUEL & OIL TANKS ARE FULL AT THESE WEIGHTS & THAT WEIGHTS BE KEPT TO A MINIMUM	MAIN - WINGS 12-2354 WING TIPS 2 x 255 BOMB BAY 2 x 400 (132)	3) 2) 2) 2) 2)	100 250 400 508 600	MOSE - FLEX. SIDE WAIST - FL. UPPER TURRET LOW-BALL TURRET TAIL TURRET	4-2000 8-1800 9-1000 12- 500 12- 250 20- 100	ONLY MOUNTING LUGS & CONTROLS INSTALLED	128K	SEE NOTE (A)	B-24D TECH. ORDER 01-562-1 (REV. 5 AUG. 1945) B-24G, H, J & M TECH. ORDER 01-562-1 (REV. 10 AUG 1945) (A) EARLY B-24D, H & J's HAD CRITICAL ALTITUDE AS LISTED FOR B-24D. (B) ARMAMENT KNOWN FOR LATEST B-24D-FO. SEE PAGE OPPOSITE FOR DETAILED BREAKDOWN.			
B-24G, H & J (LATEST MODEL)	AS ABOVE	T 1200/3 L W NONE M 1200/31800 ^a C 1100/31500 ^a	S 110'0" L 57'2" H 18'0" T 25'8" W 1048 Sq. ft.	B 38000 C 56000 W 71200 * M 56000	10		AS ABOVE	2) 2) 2) 2) 2)	700 500 400 550 600	MOSE TURRET SIDE WAIST - FL. UPPER TURRET LOW-BALL TURRET TAIL TURRET	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE				
B-24L & M (LATEST MODEL)	PRATT-WHITNEY R-1830-85 TURBO HAMILTON STD. 11"7"DIAM.-3 BL. F.F., HYDROMATIC	T AS ABOVE W AS ABOVE M AS ABOVE C AS ABOVE	S AS ABOVE L AS ABOVE H AS ABOVE T AS ABOVE W AS ABOVE	B 37500 C 56000 W 71200 * M 56000	10		AS ABOVE EXCEPT: B-24L HAS HARD HELD FLEX. TAIL GUNS. B-24M HAS LIGHT WEIGHT TAIL TURRET.	AS ABOVE EXCEPT: B-24L HAS HARD HELD FLEX. TAIL GUNS. B-24M HAS LIGHT WEIGHT TAIL TURRET.	AS ABOVE EXCEPT: B-24L HAS HARD HELD FLEX. TAIL GUNS. B-24M HAS LIGHT WEIGHT TAIL TURRET.	AS ABOVE EXCEPT: B-24L HAS HARD HELD FLEX. TAIL GUNS. B-24M HAS LIGHT WEIGHT TAIL TURRET.	AS ABOVE EXCEPT: B-24L HAS HARD HELD FLEX. TAIL GUNS. B-24M HAS LIGHT WEIGHT TAIL TURRET.	AS ABOVE EXCEPT: B-24L HAS HARD HELD FLEX. TAIL GUNS. B-24M HAS LIGHT WEIGHT TAIL TURRET.	AS ABOVE EXCEPT: B-24L HAS HARD HELD FLEX. TAIL GUNS. B-24M HAS LIGHT WEIGHT TAIL TURRET.	AS ABOVE EXCEPT: B-24L HAS HARD HELD FLEX. TAIL GUNS. B-24M HAS LIGHT WEIGHT TAIL TURRET.	AS ABOVE EXCEPT: B-24L HAS HARD HELD FLEX. TAIL GUNS. B-24M HAS LIGHT WEIGHT TAIL TURRET.			

MODEL & BLOCK-NO.	TAKE OFF & LANDING HARD SURFACE-NO WIND					HIGH SPEED & CLIMB CLEAN AIRPLANE AT NORMAL COMBAT WEIGHT										RANGE AND ENDURANCE STATUTE AIR MILES-NO WIND- NO ALLOWANCE FOR RESERVE										REMARKS				
	GROSS WEIGHT LB	TO CLEAR 50'		LANDING SPEED M.P.H.	GROUND RUN		WEIGHT LB	STD. ALT. FT.	WAR EMERG.		MIL. POWER		MAX. CONTIN. POWER		LOADING			MAX. CONTINUOUS POWER				MAX. CRUISE POWER					LONG RANGE			
		T.O. DIST. FT.	LAND DIST. FT.		T.O. DIST. FT.	LAND DIST. FT.			HIGH SPEED M.P.H.	RATE OF CLIMB FT. MIN.	HIGH SPEED M.P.H.	RATE OF CLIMB FT. MIN.	HIGH SPEED M.P.H.	RATE OF CLIMB FT. MIN.	TIME TO CLIMB MIN.	TAKE OFF WEIGHT LB	BOMBS-CARGO-RASS LB	TOTAL FUEL U.S. GAL.	at 10,000 FT.		at 25,000 FT.		at 10,000 FT.		at 25,000 FT.		RANGE MILES	ENDUR. HOURS	RANGE MILES	ENDUR. HOURS
B-24D	40000 45000 50000 55000 60000 65000	- 3300 3600 4800 5400 9100	3300 3600 3900 4300 -	90 95 100 105 -	2800 3000 3300 3500 -	30000 20000 15000 10000 5000	30000 25000 20000 15000 10000 5000	20000 15000 10000 5000	NONE	303 290 277 263 252	900 1000 1150 1200 1200	297 284 272 259 246	700 800 950 1000 1050	30.2 22.0 15.4 9.7 4.2	54000 61000 61500 60500	NONE NONE 3000 5000	3514 3154 2814 2354	- 1200 1050 850	4.8 4.1 3.5	1350 1200 950	4.8 4.1 3.5	2400 2250 1750	10.4 9.2 8.0	2500 2250 1800	10.4 9.2 7.5	3500 ^c 3000 2750 2300	20.0 ^c 16.0 15.4 13.0	(c) MAX. FERRY RANGE MAY BE RESTRICTED BY IN-SUFFICIENT OIL IF ENGINE IS NOT IN BETTER THAN AVERAGE CONDITION; OIL CONSUMPTION VARIES FROM 3 QT. TO 3 GAL. PER HR. PER ENGINE DEPENDING ON TIME SINCE OVERHAUL.		
B-24G, H & J	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	NONE	290 277 264	925 775 900	278 257 256	450 600 725	33.6 25.0 17.6	55000 62000 62500	NONE NONE 3000	3514 3154 2814	- 1150 1000	4.8 4.1	1350 1200	4.8 4.1	2200 1300	10.7 8.8	2300 1950	10.2 8.8	3300 ^c 2900 2500 2100	18.2 ^c 16.4 14.0 11.7			
B-24L & M	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	NONE	254 244	875 1025	800 235	11.4 8.6	51500 61000	NONE 3000 5000	3514 3154 2814 2354	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	

NOTES:

TABLE 1	TABLE 2	TABLE 3	TABLE 4
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TABLE 13	TABLE 14	TABLE 15	TABLE 16
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TABLE 21	TABLE 22	TABLE 23	TABLE 24
TABLE 25	TABLE 26	TABLE 27	TABLE 28
TABLE 29	TABLE 30	TABLE 31	TABLE 32
TABLE 33	TABLE 34	TABLE 35	TABLE 36
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TABLE 41	TABLE 42	TABLE 43	TABLE 44
TABLE 45	TABLE 46	TABLE 47	TABLE 48

RED FIGURES ARE PRELIMINARY; SUBJECT TO REVISION AFTER FLIGHT CHECK



B-24
"LIBERATOR"

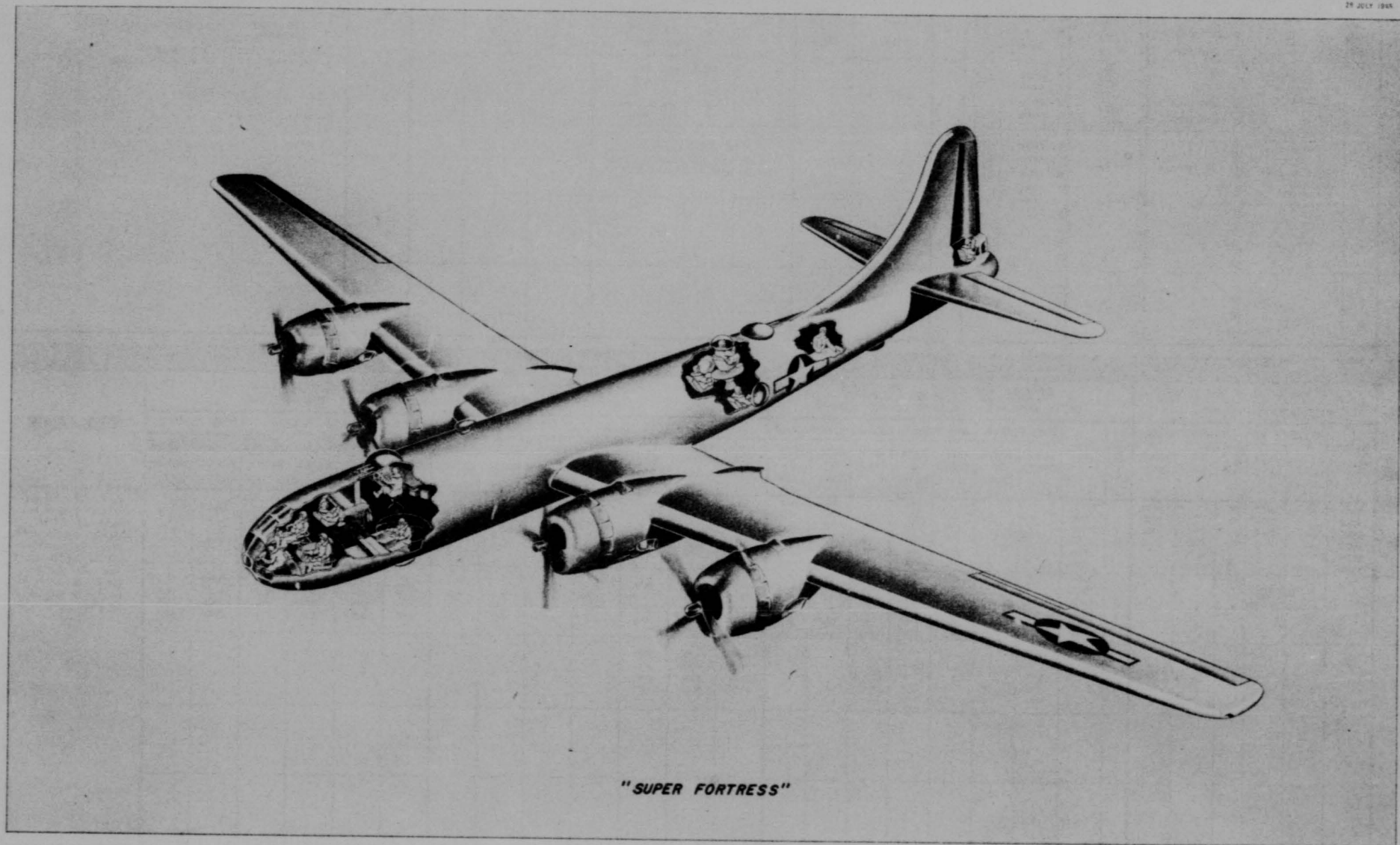
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SAMPLE B-29 MISSION



TOTAL STAT. MILES	0	33	1653	1693	1893	2285	3436	3586
TOTAL NAUT. MILES	0	29	1435	1470	1640	1980	2990	3110
TOTAL TIME		0.2	7.6	7.8	8.5	10.2	16.1	16.9
TOTAL FUEL	170	351	3350	3552	4144	4657	6197	6397
CAL. AIR SPEED	190	202-198	190	240-250	184-180	180-176	178	0
COWL FLAP ANGLE	W.O.-7°	1°	2½°	1½°	0°	0°	0°	0°
WEIGHT	137400	136300	118300	117100	97500	94500	85200	84000

Note:

- FUEL LISTED IN FIRST COLUMN IS ALLOWANCE FOR WARM UP TAKE-OFF AND CLIMB BASED ON 10 MINUTES OPERATION AT MAXIMUM CONTINUOUS POWER AT SEA LEVEL.
- NO ALLOWANCE HAS BEEN MADE IN RANGE FOR FORMATION FLIGHT, DIFFERENCES IN AIRPLANES, PILOT TECHNIQUE, WIND ETC.
- THE ABOVE DATA IS FOR COMBAT B-29 WITH TURRETS, BLISTERS, RADAR DOME, SHORT CHORD COWL FLAPS, LATEST ENGINE BAFFLES AND IS BASED ON MARIANAS DATA. THE B-29 IS GREATLY AFFECTED BY TEMPERATURE CHANGES. AS AN EXAMPLE AN INCREASE OF 10° C IN TEMPERATURE HAS THE SAME EFFECT ON RATE OF CLIMB AS ADDING 5000 LB. TO SHIP WEIGHT.

GROSS WT. - 138400 LB.
 FUEL - 6988 GAL.
 BOMBS - 16000 LB.
 RANGE OF 3586 MILES
 (WITH 591 GAL. RESERVE)

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BELL (ATLANTA) "BA"

MODEL & BLOCK-NO.	ARMAMENT			FUEL		
	NO GUNS & CALIBER	RDS. PER GUN	LOCATION & TYPE	TANK TYPE & LOCATION	NO. TANKS & CAPACITY	MAX. CAPACITY (U. S. GALS)
B-29-BA -1	1-20MM. 2) .50 2) 1000* 2) 1000* 2) 1000*	100	TAIL, NO. TYPE B UPPER FORE TER. UPPER REAR TER. LOWER FORE TER. LOWER REAR TER. TAIL POWER MT.	OUTRD. WINGS IMRD. WINGS BOMB BAY	11-2726 8-2912 1x 640	8198
B-29-BA -5 thru 1st.9 (-15)	A S A B O V E	A B O V E	A B O V E	OUTRD. WINGS IMRD. WINGS CENTER WGS BOMB BAY	11-2726 8-2912 1x 1350 1x 640	9548
B-29-BA 1st.11(-15) thru (-20)	1-20MM. 4) .50 2) 1000* 2) 1000* 2) 1000* 2) 1000*	100	TAIL, NO. TYPE B UPPER FORE TER. UPPER REAR TER. LOWER FORE TER. LOWER REAR TER. TAIL POWER MT.	A S	A B O V E	
B-29-BA -25 thru 23 (-45)	4) 2) .50 2) 1000* 2) 1000*	875*	UPPER FORE TER. UPPER REAR TER. LOWER FORE TER. LOWER REAR TER. TAIL POWER MT.	A S	A B O V E	
B-29-BA -30 thru -60 (SEE **)	2-.50	1000*	POWER TAIL MT.	A S	A B O V E	

NOTES: * FILLER STRIPS ARE ADDED IN AMMUNITION CANS TO REDUCE ROUNDS TO 800 PER GUN.
** 2 CAL.50 ON -30, -35, 1st. 47(-40)
3 CAL.50 ON LAST 15(-40) THRU -65

BOEING (WICHITA) "BW"

MODEL & BLOCK-NO.	ARMAMENT			FUEL		
	NO GUNS & CALIBER	RDS. PER GUN	LOCATION & TYPE	TANK TYPE & LOCATION	NO. TANKS & CAPACITY	MAX. CAPACITY (U. S. GALS)
B-29-BW -1 thru -20	1-20MM. 2) .50 2) 1000* 2) 1000* 2) 1000*	100	TAIL, NO. TYPE B UPPER FORE TER. UPPER REAR TER. LOWER FORE TER. LOWER REAR TER. TAIL POWER MT.	OUTRD. WINGS IMRD. WINGS BOMB BAY	11-2726 8-2912 1x 640	8198
B-29-BW -25 thru 1st.25 (-40)	A S A B O V E	A B O V E	A B O V E	OUTRD. WINGS IMRD. WINGS CENTER WGS BOMB BAY	11-2726 8-2912 1x 1350 1x 640	9548
B-29-BW LAST 75(-40) thru 1st.80(-50)	1-20MM. 4) .50 2) 1000* 2) 1000* 2) 1000*	100	TAIL, NO. TYPE B UPPER FORE TER. UPPER REAR TER. LOWER FORE TER. LOWER REAR TER. TAIL POWER MT.	A S	A B O V E	
B-29-BW Last 20(-50) thru (-80)	4) 2) .50 2) 1000* 2) 1000*	875*	UPPER FORE TER. UPPER REAR TER. LOWER FORE TER. LOWER REAR TER. TAIL POWER MT.	A S	A B O V E	

NOTES: * FILLER STRIPS ARE ADDED IN AMMUNITION CANS TO REDUCE ROUNDS TO 800 PER GUN.

BOEING (SEATTLE) "BF"

MODEL & BLOCK-NO.	ARMAMENT			FUEL		
	NO GUNS & CALIBER	RDS. PER GUN	LOCATION & TYPE	TANK TYPE & LOCATION	NO. TANKS & CAPACITY	MAX. CAPACITY (U. S. GALS)
B-29-BF -1	1-20MM. 2) .50 2) 1000* 2) 1000* 2) 1000*	100	TAIL, NO. TYPE B UPPER FORE TER. UPPER REAR TER. LOWER FORE TER. LOWER REAR TER. TAIL POWER MT.	OUTRD. WINGS IMRD. WINGS BOMB BAY	11-2726 8-2912 1x 640	8198
B-29-BF -5 thru 1st.11 (-10)	A S A B O V E	A B O V E	A B O V E	OUTRD. WINGS IMRD. WINGS CENTER WINGS BOMB BAY	11-2726 8-2912 1x 1350 1x 640	9298
B-29-BF Last 9(-10) thru (-15)	2) 2) .50 2) 1000* 2) 1000*	1000*	UPPER FORE TER. UPPER REAR TER. LOWER FORE TER. LOWER REAR TER. TAIL POWER MT.	A S	A B O V E	
B-29-BF -20 & -40	4) 2) .50 2) 1000* 2) 1000*	875*	UPPER FORE TER. UPPER REAR TER. LOWER FORE TER. LOWER REAR TER. POWER TAIL MT.	A S	A B O V E	

NOTES: * FILLER STRIPS ARE ADDED IN AMMUNITION CANS TO REDUCE ROUNDS TO 800 PER GUN.

BOEING (CHICAGO) "BC"

MODEL & BLOCK-NO.	ARMAMENT			FUEL		
	NO GUNS & CALIBER	RDS. PER GUN	LOCATION & TYPE	TANK TYPE & LOCATION	NO. TANKS & CAPACITY	MAX. CAPACITY (U. S. GALS)
B-29-BC -1 thru 1st.9 (-20)	1-20MM. 4) .50 2) 1000* 2) 1000* 2) 1000*	100	TAIL, NO. TYPE B UPPER FORE TER. UPPER REAR TER. LOWER FORE TER. LOWER REAR TER. TAIL POWER MT.	OUTRD. WINGS IMRD. WINGS CENTER WINGS BOMB BAY	11-2726 8-2912 1x 1350 1x 640	9548
B-29-BC Last 19(-20) thru (-40)	4) 2) .50 2) 1000* 2) 1000*	875*	UPPER FORE TER. UPPER REAR TER. LOWER FORE TER. LOWER REAR TER. TAIL POWER MT.	A S	A B O V E	

NOTES: * FILLER STRIPS ARE ADDED IN AMMUNITION CANS TO REDUCE ROUNDS TO 800 PER GUN.

TRAPPED UNAVAILABLE FUEL The following table is based on transfer of fuel from center section and bomb bay tanks with the body center line at 0° and wings level.

FLIGHT ATTITUDE WINGS LEVEL OF BODY	TOTAL TRAPPED FUEL (GAL.)
4° UP	87
2° UP	81
0°	93
2° DOWN	121
4° DOWN	163
6° DOWN	207
8° DOWN	249
15° DOWN	531
20° DOWN	667

NOTE

It is probable that a 20° nose down attitude will be reached while making a normal approach, however, if conditions warrant, an approach may be made as flat as 6° to 8° nose down.

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NAME) "B"

LOCATION & TYPE	FUEL		
	TANK TYPE & LOCATION	NO. TANKS & CAPACITY	MAX. CAPACITY (U. S. GALS)
UPPER TYPE B PORE THR. REAR THR. PORE THR. REAR THR. PORE THR. REAR THR.	OUTRD. WINGS INDD. WINGS BOMB BAY	11-2726 8-2912 1x 640	8198
TYPE B	OUTRD. WINGS INDD. WINGS CENTER WING BOMB BAY	11-2726 8-2912 1-1350 1x 640	9548
UPPER TYPE B PORE THR. REAR THR. PORE THR. REAR THR. PORE THR. REAR THR.	A B A B O V E		
PORE THR. REAR THR. PORE THR. REAR THR. PORE THR. REAR THR.	A B A B O V E		
TAIL MT.	A B A B O V E		

ED IN AMMUNITION CANS
800 PER GUN.
1st. 47 (-40)
-40) THRU -85

MODEL (OTHER) "B"

MODEL & BLOCK NO.	ARMAMENT			FUEL		
	NO GUNS & CALIBER	RDS. PER GUN	LOCATION & TYPE	TANK TYPE & LOCATION	NO. TANKS & CAPACITY	MAX. CAPACITY (U. S. GALS)
B-29A-BH -1	1-20MM. 2) 2) 2) 2)	100 1000* 1000* 1000* 1000*	TAIL, RE, TYPE B UPPER PORE THR. UPPER REAR THR. LOWER PORE THR. LOWER REAR THR. TAIL POWER MT.	OUTRD. WINGS INDD. WINGS BOMB BAY	11-2726 8-2912 1x 640	8198
B-29A-BH -5 thru 1st. 11 (-10)	A B A B O V E			OUTRD. WINGS INDD. WINGS CENTER WING BOMB BAY	11-2726 8-2912 1-1350 1x 640	9548
B-29A-BH Last 9 (+10) thru (-15)	2) 2) 2) 2)	1000* 1000* 1000* 1000*	UPPER PORE THR. UPPER REAR THR. LOWER PORE THR. LOWER REAR THR. TAIL POWER MT.	A B A B O V E		
B-29A-BH -20 & -40	4) 2) 2) 2)	875* 1000* 1000* 1000*	UPPER PORE THR. UPPER REAR THR. LOWER PORE THR. LOWER REAR THR. POWER TAIL MT.	A B A B O V E		

NOTES: *FILLER STRIPS ARE ADDED IN AMMUNITION CANS
TO REDUCE ROUNDS TO 800 PER GUN.

TRAPPED UNAVAILABLE FUEL The following table is based on transfer of fuel from center section and bomb bay tanks with the body center line at 0° and wings level.

FLIGHT ATTITUDE WINGS LEVEL OF BODY	TOTAL TRAPPED FUEL (GAL.)
4° UP	87
2° UP	81
0°	93
2° DOWN	121
4° DOWN	163
6° DOWN	207
8° DOWN	249
15° DOWN	531
20° DOWN	667

NOTE

It is probable that a 20° nose down attitude will be reached while making a normal approach, however, if conditions warrant, an approach may be made as flat as 6° to 8° nose down.

NAME) "B"

LOCATION & TYPE	FUEL		
	TANK TYPE & LOCATION	NO. TANKS & CAPACITY	MAX. CAPACITY (U. S. GALS)
UPPER TYPE B PORE THR. REAR THR. PORE THR. REAR THR. PORE THR. REAR THR.	OUTRD. WINGS INDD. WINGS BOMB BAY	11-2726 8-2912 1x 640	8198
TYPE B	OUTRD. WINGS INDD. WINGS CENTER WING BOMB BAY	11-2726 8-2912 1-1350 1x 640	9548
UPPER TYPE B PORE THR. REAR THR. PORE THR. REAR THR. PORE THR. REAR THR.	A B A B O V E		
PORE THR. REAR THR. PORE THR. REAR THR. PORE THR. REAR THR.	A B A B O V E		
TAIL MT.	A B A B O V E		

ED IN AMMUNITION CANS
800 PER GUN.

MODEL (OTHER) "B"

MODEL & BLOCK NO.	ARMAMENT			FUEL		
	NO GUNS & CALIBER	RDS. PER GUN	LOCATION & TYPE	TANK TYPE & LOCATION	NO. TANKS & CAPACITY	MAX. CAPACITY (U. S. GALS)
B-29-MD -1 thru 1st. 9 (-20)	1-20MM. 4) 2) 2) 2)	100 875* 1000* 1000* 1000*	TAIL, RE, TYPE B UPPER PORE THR. UPPER REAR THR. LOWER PORE THR. LOWER REAR THR. TAIL POWER MT.	OUTRD. WINGS INDD. WINGS CENTER WING BOMB BAY	11-2726 8-2912 1-1350 1x 640	9548
B-29-MD Last 19 (-20) thru (-40)	4) 2) 2) 2)	875* 1000* 1000* 1000*	UPPER PORE THR. UPPER REAR THR. LOWER PORE THR. LOWER REAR THR. TAIL POWER MT.	A B A B O V E		

NOTES: *FILLER STRIPS ARE ADDED IN AMMUNITION CANS
TO REDUCE ROUNDS TO 800 PER GUN.

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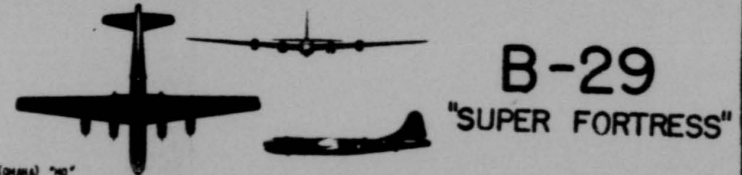
MODEL & BLOCK-NO.	ENGINE & PROP.		SIZE	WEIGHT		COMBAT CREW	FUEL & OIL		ARMAMENT			BOMBS		RADIO	REMARKS & REFERENCE	
	NUMBER	ENGINE MFR. MODEL SUPERCHARGER PROP. MFR. TYPE	B.H.P./ALT.	S-SPAN L-LENGTH M-HEIGHT T-TREAD W-WING AREA	B-BASIC C-COMBAT W-WAR MAX. M-MAX.LAND.		FUEL TANKAGE		NO. AND SIZE			INTERNAL	EXTERNAL	MAX. LOAD		TYPICAL MODELS CARRIED
			T-TAKE OFF W-WAR EMERG. M-MILITARY C-CONTINUOUS				TYPE OR LOCATION ALSO (MAX. OIL)	NO. AND CAPACITY ALSO (MAX. FUEL)	NO. GUNS AND SIZE	RDS. PER GUN	LOCATION AND TYPE					
B-29 & A (LATEST MODEL)	WRIGHT R-3350-23, -23A, -51, -57 or -58 T83B HAMILTON STA. 16"7"1/2 A-4 BL. F.F., HYDRA-MATIC	T 2320/3 L W 2500/22000 C 2310/21500	S 141' 3" L 90' M 29' 7" T 31' 6" W 1730 Sq. '.	B 75000 C 137000 W 159000 M 120000	11 07 12	OUTRD.-WINGS 1985. - WINGS CENTER-WINGS 1-1950 1/2 690 (994)	14-2728 8-2912 1/2 50 22	4 C 500 21.50 22	500 UPPER FORE TEL. 500 UPPER REAR TEL. 500 LOWER FORE TEL. 500 LOWER REAR TEL. TAIL POWER HT.	4-4000 8-2000 12-1600 12-1000 40-500			20000	SEE NOTE (A)	REFER TO PAGE 4 FOR "FOREWORD." REFER TO PAGE 3 FOR SECURITY CLASSIFICATION. REFER TO PAGE 5 FOR DEFINITIONS. REFER TO T.O. LISTED FOR DETAILED PLANNING. B-29, A & B TECH. ORDER 01-20EJA-1 (REV. 15 SEPT.) (a) WAR EMERGENCY RATING WITH 52.5" H.E. AND 2800 RPM. (b) OUTBOARD TREAD 31'6"; INBOARD TREAD 25'5" (c) SEE PAGE OPPOSITE FOR ARMAMENT BREAKDOWN. AN/APG-150 USED WITH TAIL POWER MOUNT ON B-29B TO GIVE RADAR GUN SIGHTING FOR USE AGAINST NIGHT FIGHTERS. (d) CURTISS ELECTRIC PROPS. WERE INSTALLED ON AIRPLANES 21848 THRU 21872.	
B-29B (LATEST MODEL)	AS ABOVE	AS ABOVE	AS ABOVE	B 72700 C 137000 W 152000 M 120000	10	AS ABOVE	2-50	500	TAIL POWER HT.	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE		

MODEL & BLOCK-NO.	TAKE OFF & LANDING HARD SURFACE-NO WIND				HIGH SPEED & CLIMB CLEAN AIRPLANE AT NORMAL COMBAT WEIGHT						RANGE AND ENDURANCE STATUTE AIR MILES-NO WIND-NO ALLOWANCE FOR RESERVE										REMARKS			
	GROSS WEIGHT	TO CLEAR 50'		GROUND RUN	WEIGHT	STD. ALT.	WAR EMERG.		MIL. POWER		MAX. CONTN. POWER		LOADING		BOMBING ALTITUDE				FERRY					
		T.O. DIST.	LAND DIST.				LANDING SPEED	T.O. DIST.	LAND DIST.	HIGH SPEED	RATE OF CLIMB	HIGH SPEED	RATE OF CLIMB	HIGH SPEED	RATE OF CLIMB	TIME TO CLIMB	TAKE OFF WEIGHT	BOMBS	TOTAL FUEL	at 5000FT		at 15000FT	at 25000FT	at 30000FT
B-29 & A	80000	-	4600	105	-	3200	355	550	353	300	351	150	72.0	141000	8086	8546	80 BOMBS	80 BOMBS	80 BOMBS	80 BOMBS	80 BOMBS	5500	25.2	(a) CLIMB DATA IS FOR 120000 LB. B-29A MODELS CARRY ONLY 1100 GAL. FUEL IN CENTER WING TANKS DUE TO DIFFERENT INTERNAL WING STRUCTURE. SEE PAGE OPPOSITE FOR FUEL TANKAGE OF INDIVIDUAL BLOCKS. UNUSABLE FUEL MAY BECOME APPRECIABLE ON ALL B-29s AT CERTAIN ANGLES OF BODY CENTER LINE. SEE PAGE OPPOSITE. FLIGHT TEST REQUESTED
B-29B	80000	4600	-	110	2950	-	366	825	340	575	330	425	36.0	138500	7000	8268	80 BOMBS	80 BOMBS	80 BOMBS	80 BOMBS	80 BOMBS	4375	21.8	
	100000	4600	-	110	2950	-	366	825	340	575	330	425	36.0	138500	16000	8988	80 BOMBS	80 BOMBS	80 BOMBS	80 BOMBS	80 BOMBS	3725	17.0	
	110000	5700	-	115	2950	-	366	800	330	650	319	500	26.0	138000	17500	8778	80 BOMBS	80 BOMBS	80 BOMBS	80 BOMBS	80 BOMBS	3575	16.2	
	120000	7200	-	120	4800	-	366	800	315	725	304	575	16.0	138000	17500	8778	80 BOMBS	80 BOMBS	80 BOMBS	80 BOMBS	80 BOMBS	3375	14.8	

NOTES:

B-29 & A	B-29B	NAME
AR/AM-1	AR/AM-3	CLIMB PATH
AR/AL-1	AR/AL-1	LOCALIZER
AR/AS-1	AR/AS-1	HEADS UP DISPLAY
SCB-112	SCB-112	IFF
SCB-115	SCB-115	IFF
SC-105	SC-105	MARKER BEACON
AR/AL-2	AR/AL-2	INTERPHONE
AR/AS-2	AR/AS-2	INTERPHONE
AR/AM-3	AR/AM-3	STATIC DISCHARGE
SCB-112	SCB-112	HEADS UP DISPLAY
AR/AS-3	AR/AS-3	IFF
AR/AM-13	AR/AM-13	IFF
SCB-112	SCB-112	IFF
SCB-115	SCB-115	IFF

RED FIGURES ARE PRELIMINARY; SUBJECT TO REVISION AFTER FLIGHT CHECK.



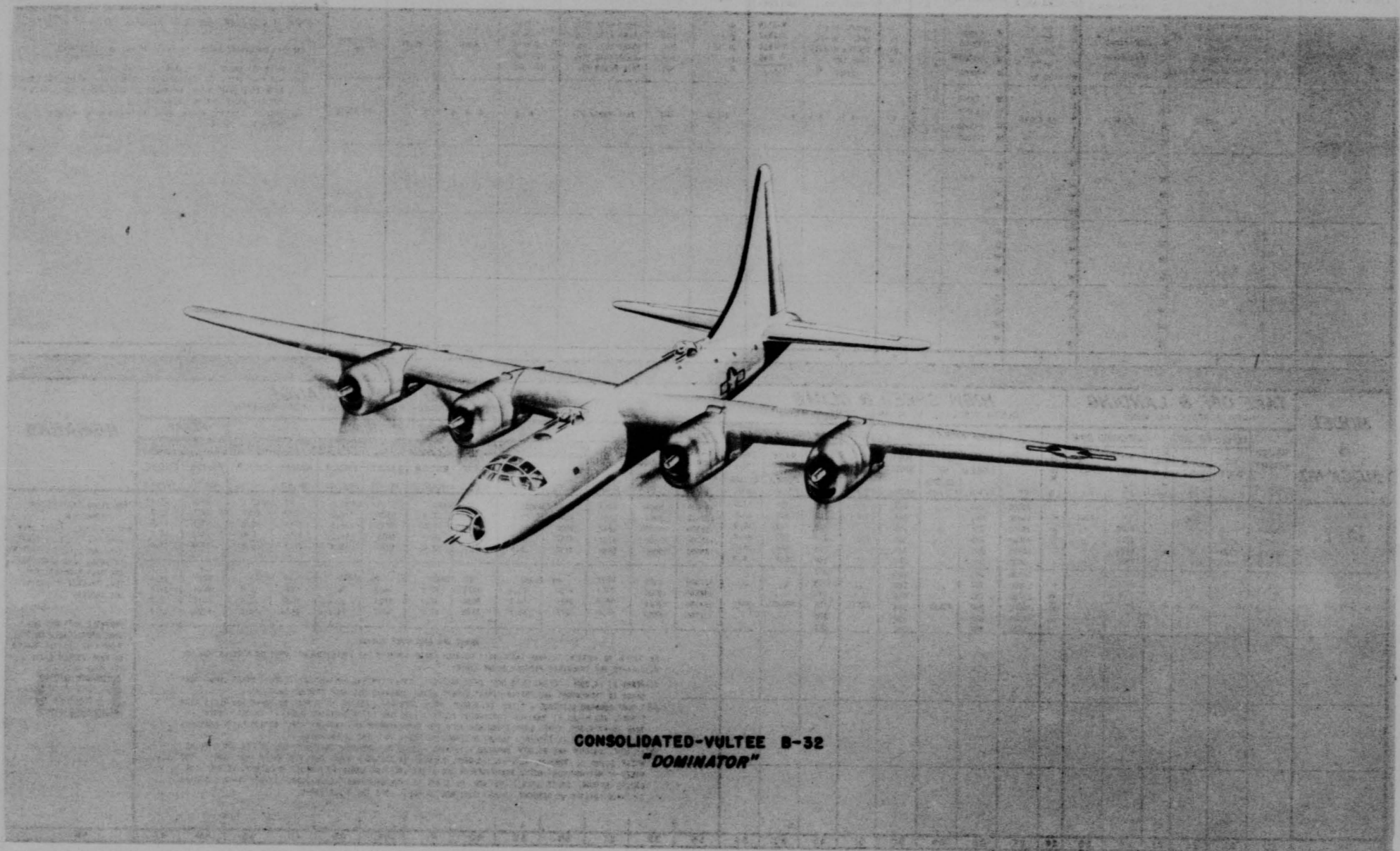
MANUFACTURED BY BELL (ATLANTA) "M"; BOEING (RENTON) "M"; BOEING (MICHIGAN) "M"; B. MARTIN (OHAMA) "M"

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PAGE 14
AS OF
28 JULY 1994



CONSOLIDATED-VULTEE B-32
"DOMINATOR"

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TACTICAL PLANNING CHARACTERISTICS & PERFORMANCE CHART

PAGE 15
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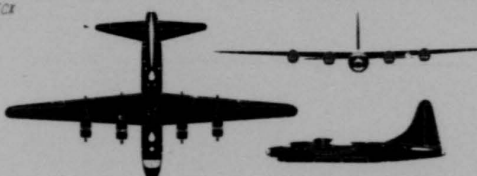
MODEL & BLOCK-NO.	ENGINE & PROP.		SIZE	WEIGHT		COMBAT CREW	FUEL & OIL		ARMAMENT			BOMBS		RADIO	REMARKS & REFERENCE
	NUMBER	ENGINE MFR. MODEL SUPERCHARGER PROP MFR. TYPE	B.H.P./ALT.	S-SPAN	B-BASIC		FUEL TANKAGE		ROCKETS SIZE & INSTALLATION			NO. AND SIZE		TYPICAL MODELS CARRIED	
			T-TAKE OFF W-WAR EMERG. M-MILITARY C-CONTINUOUS	L-LENGTH H-HEIGHT T-TREAD W-WING AREA	C-COMBAT W-WAR MAX M-MAX LAND		TYPE OR LOCATION ALSO (MAX OIL)	NO AND CAPACITY ALSO (MAX FUEL)	NO GUNS AND SIZE	RDS PER GUN	LOCATION AND TYPE	INTERNAL	EXTERNAL		
B-32-CF -1 thru -35		WRIGHT R-2700-23 TANYS CIRTISS 16" DIA. 4 BL. CONST. SPD., ELECTRIC	T 2200/3 L W NONE M 2200/34000 C 2000/32500	S 137'0" L 42'11" H 33'0" T 28'0" W 1422 Sq.	B 62500 C 108000 W 114000 M - M	12	INBOARD-WINGS OUTBOARD-WINGS 1040 GAL. (302)	5-3450 3-2010 2 x 750 (8950)	21 23 21 21	3450 400 400 550 1000	1750 TARGET FRONT TOP TARGET NEAR TOP TARGET LOW FALL TARGET TAIL TURRET	4-4000 4-2700 6-1500 12-1000 40-500	NONE	20000	SEE NOTE (A) B-32 TECH. ORDER 01-507-1 (15 MARCH 1945) (a) BEGINNING WITH B-32-25 CF, PROVISIONS FOR INSTALLATION OF 2 5000 LB. TANKS; 4 5000 LB. TANKS CAN BE CARRIED IF SPECIAL INSTALLATION IS MADE. (b) NORMAL BOUNDS LISTED; SPACE PROVISIONS FOR 600 RDS. PER GUN.

MODEL & BLOCK-NO.	TAKE OFF & LANDING HARD SURFACE - NO WIND				HIGH SPEED & CLIMB CLEAN AIRPLANE AT NORMAL COMBAT WEIGHT						RANGE AND ENDURANCE STATUTE AIR MILES - NO WIND - NO ALLOWANCE FOR RESERVE										REMARKS						
	GROSS WEIGHT	TO CLEAR 50'		GROUND RUN	WEIGHT	STD. ALT.	WAR EMERG.		MIL. POWER		MAX. CONTIN. POWER		LOADING			MAX. CONTINUOUS POWER		MAX. CRUISE POWER		LONG RANGE							
		T.O. DIST.	LAND DIST.				LANDING SPEED	T.O. DIST.	LAND DIST.	HIGH SPEED	RATE OF CLIMB	HIGH SPEED	RATE OF CLIMB	HIGH SPEED	RATE OF CLIMB	TIME TO CLIMB	TAKE OFF WEIGHT	BOMBS CARRIED	TOTAL FUEL	at 10,000 FT.		at 25,000 FT.	at 10,000 FT.	at 25,000 FT.	at 10,000 FT.	at 10,000 FT.	
B-32-CF -1 thru -35	10000 90000 90000 100000 110000 120000	- 3800 4500 5700 7300 9300	3100 4100 5000 5900 7000	85 98 104 118 -	2200 2900 2900 4300 5500 7000	10000 20000 15000 10000 5000	30000 25000 20000 15000 10000 5000	NONE	337 324 312 298 281	230 530 700 850 1096	311 300 289 279 269	500 500 650 750 850	38.0 27.5 19.0 12.0 6.0	111500 109500 121000	NONE 8000 8000 20000	6950 6960 5460 5460	- 1700 1300	5.8 4.5 4.5	- 1400 4800 PRAC. CEIL.	4.8 4.8 4.2	2650 2100 2050	10.5 8.2 8.2	- 1700 2200 2400	9.7 7.8 PRAC. CEIL.	3800 3300 2900 2400	21.0 18.0 16.0 13.0	FLIGHT TEST IN PROGRESS

NOTES: (A) SCR-274N COMMAND SET
SCR-694 122
SCR-578B EMERGENCY TRANSMITTER
SCR-725 AIRBORNE INTERROGATOR
SCR-513 BLIND LANDING
SC-753 MARKER BEACON
RC-235 RADIO FILTER
AN-50N-7 RADIO COMPASS
AN-APN-1 LOW ALT. RADIO ALTIMETER
AN-APN-2 LAR
AN-APN-13 STD
AN-APN-4 LOGAN
AN-ASA-3 STATIC DISCHARGER
AN-ATC-2 INTERPHONE
SCM PROVISIONS

RED FIGURES ARE PRELIMINARY; SUBJECT TO REVISION AFTER FLIGHT CHECK

* MAX. WEIGHT HAS BEEN TENTATIVELY RESTRICTED TO 114000 LB. PENDING COMPLETION OF STATIC TESTS.



B-32
"DOMINATOR"

MANUFACTURED BY CONSOLIDATED - VULTEE (SAN DIEGO) *CO* & CONSOLIDATED - VULTEE (FT. WORTH) *CF*

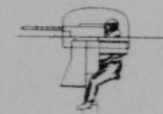
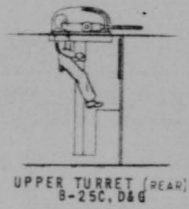
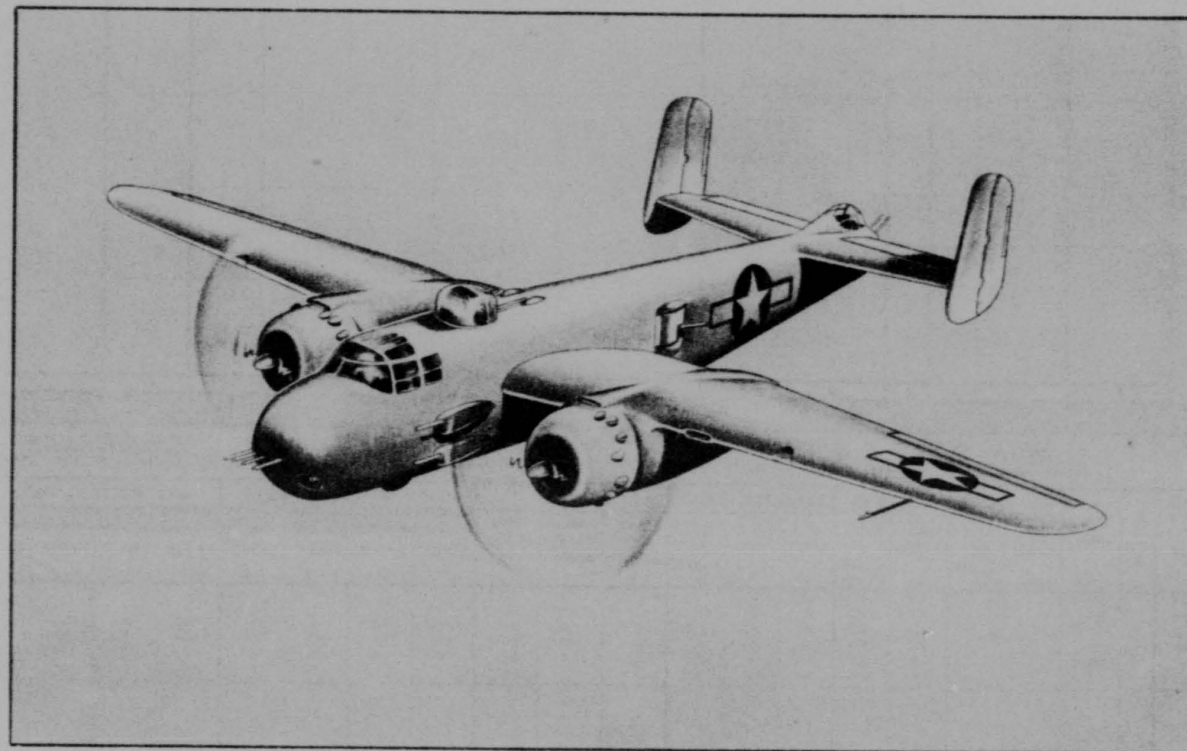
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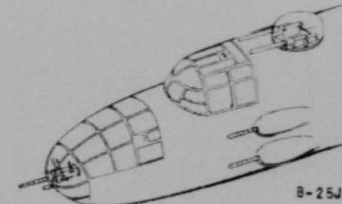
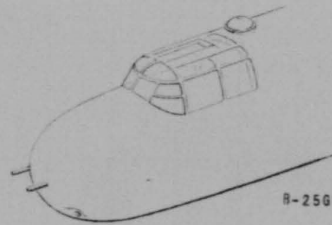
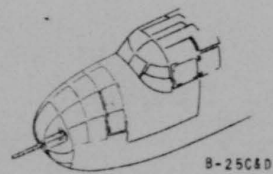
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25 JAN. 1945

B-25 MITCHELL BOMBER



B-25H



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TACTICAL PLANNING CHARACTERISTICS & PERFORMANCE CHART

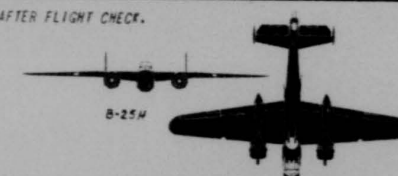
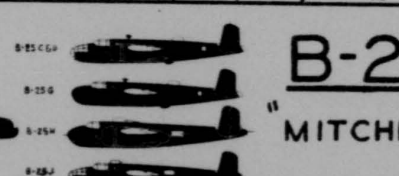


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AS OF 1 JANUARY 1945

MODEL & BLOCK-NO.	ENGINE & PROP.		SIZE	WEIGHT	COMBAT CREW	FUEL & OIL		ARMAMENT			BOMBS			RADIO	REMARKS & REFERENCE
	NUMBER	ENGINE MFR. MODEL SUPERCHARGER PROP. MFR. TYPE				B.H.P./ALT.	S-SPAN	FUEL TANKAGE	(NO. ROCKETS-SIZE-INSTALLATION)			NO. AND SIZE			
			T-TAKE OFF W-WAR EMERG. M-MILITARY C-CONTINUOUS	L-LENGTH H-HEIGHT T-TREAD W-WING AREA		TYPE OR LOCATION (MAX. OIL)	NO. AND CAPACITY (MAX. FUEL)	NO. GUNS AND SIZE	RDS. PER GUN	LOCATION AND TYPE	INTERNAL	EXTERNAL	MAX. LOAD		
B-25C-NA -1 thru -25	2	WRIGHT R-2600-13 or -29 2 SPD. SUPERCH. HAMILTON STD. 12 7/8" DIA.-3 BL. F.F. HYDROMATIC	1700/ S.L. 1840/ S.L.(-13) 1700/ 4500 1400/ 13500 1500/ 8700 1300/ 13500	S 67' 6" L 52' 9" H 15' 9" T 19' 4" W 610 Sq. ft.	B 22000 C 33400 W 35000* M 32200	5	MAIN - WINGS 2 x 184 MAIN - WINGS 2 x 151 AUX. - WINGS 6 - 304 SIDE WAIST 1 x 125 BOMB BAY 1 x 585 (75)	1) 300 2) 300 3) 300 4) 350 5) 350 6) 350 7) 350 8) 350 9) 350 10) 350 11) 350 12) 350 13) 350 14) 350 15) 350 16) 350 17) 350 18) 350 19) 350 20) 350 21) 350 22) 350 23) 350 24) 350 25) 350 26) 350 27) 350 28) 350 29) 350 30) 350 31) 350 32) 350 33) 350 34) 350 35) 350 36) 350 37) 350 38) 350 39) 350 40) 350 41) 350 42) 350 43) 350 44) 350 45) 350 46) 350 47) 350 48) 350	NOSE - FLEX. NOSE - FIXED UPPER TURRET LOWER TURRET SIDE WAIST - FL. TAIL POWER MT.	1-2000 2-1500 3-1000 4-500 6-250 8-100 12-100	1-2000 2-1500 3-1000 4-500 6-250 8-100 12-100	2-1500 3-1000 4-500 6-250 8-100 12-100	SCA-211 SCA-299 SCA-274 SCA-287A SCA-522 SCA-535 SCA-578 SCA-595 SCA-695 AK/ARM-1 RC-32 RC-36 RC-43B RC-103 RC-198 RC-198	B-25C & D TECH. ORDER 01-80GB-1. (REV. 15 JULY 1945) B-25G TECH. ORDER 01-80GC-1. (REV. 20 AUGUST 1945) B-25H TECH. ORDER 01-80GD-1. (REV. 20 AUGUST 1945) B-25J TECH. ORDER 01-80GE-1. (REV. 15 JULY 1945) (a) LENGTH B-25C is 53 FT. (b) B-25C-25 & D-20 THRU -35 HAVE SAME FUEL CAPACITY AS LISTED FOR B-25G. ONLY B-25D AIRPLANES CARRY 1 x 125 GAL. SIDE WAIST TANK. (c) B-25C-1 & D-1 CARRY ONLY 1-30 CAL. FLEX. NOSE GUN OF 500 ROUNDS IN PLACE OF 2 NOSE GUNS. (d) ARMOR PIERCING BOMBS ON SOME MODELS ONLY. (e) BOMB BAY FUEL CONSISTS OF EITHER 1 x 215 GAL. SELF SEALING REMOVABLE TANK 1 x 335 GAL. METAL DROPPABLE TANK OR IN LIEU, 1 x 595 GAL. DROPPABLE METAL TANK. (f) SOME B-25H-1 MODELS CARRY ONLY 2 NOSE PACKAGE GUNS. (g) THE 2000 LB. STATION IS DELETED ON 191st, B-25H-5 AND SUBSEQUENT. ALSO INT. 150 B-25J-1's. T TORPEDO * EXTERNAL ** 8(5") AR OR HYAR INSTALLED ON SOME SERVICE MODELS.	

MODEL & BLOCK-NO.	TAKE OFF & LANDING HARD SURFACE - NO WIND				HIGH SPEED & CLIMB CLEAN AIRPLANE AT NORMAL COMBAT WEIGHT								RANGE AND ENDURANCE STATUTE AIR MILES - NO WIND - NO ALLOWANCE FOR RESERVE												REMARKS
	GROSS WEIGHT	TO CLEAR 50'		GROUND RUN	WEIGHT	STD. ALT.	WAR EMERG.		MIL. POWER		MAX. CONTIN. POWER		LOADING			MAX. CONTINUOUS POWER				LONG RANGE					
		T.O. DIST.	LAND DIST.				LANDING SPEED	T.O. DIST.	LAND DIST.	HIGH SPEED	RATE OF CLIMB	HIGH SPEED	RATE OF CLIMB	HIGH SPEED	RATE OF CLIMB	TIME TO CLIMB	TAKE OFF WEIGHT	BOMBS	TOTAL FUEL	at 10000 FT.		at 20000 FT.		at 10000 FT.	
B-25C-NA -1 thru -25	24000	2900	3500	105	1500	20000	265	280	280	550	16.5	34900	NONE	1584	1375	5.2	1450 ²	5.7 ²	2350	10.3	2175 ²	10.0 ²	2650	12.6	
B-25D-NC -1 thru -35	27000	2900	3500	110	2300	1700	284	289	289	830	9.5	34000	NONE	1559	1275	4.7	1300 ²	5.2 ²	2200	9.4	1950 ²	9.0 ²	2500	11.8	
B-25G-NA -1 thru -10	30000	4000	3800	112	3200	1900	283	283	283	830	9.5	32200	2000 T	974	775	2.9	800	3.3	1350	5.7	1175	5.3	1525	7.3	
B-25H-NA -1 thru -10	32000	4800	-	-	3900	-	282	1225	274	1150	4.3	32200	2000 T	974	750	3.0	ABOVE PRACTICAL CEILING	-	1250	5.5	ABOVE PRACTICAL CEILING	-	1350	7.1	
B-25J-NC -1 thru -35	35000	6000	-	-	4800	-	264	1375	257	1200	0.0	35000*	5200	974	725	2.9	TICAL CEILING	1100	5.0	850	4.9	1225	6.1		

NOTES: (A) SCB-211 FREQUENCY METER
SCB-259G RADIO COMPASS
SCB-274A COMMAND SET
SCB-287A LIAISON SET
SCB-522 COMMAND SET
SCB-516 SET
SCB-578 EMERGENCY TRANSMITTER
SCB-694 SET
SCB-695 SET
AK/ARM-1 RADIO COMPASS
RC-32 FILTER EQUIPMENT
RC-36 INTERPHONE AMPLIFIER
RC-43B MARKER BEACON
RC-103 LOCALIZER
RC-198 CONTACTOR UNIT
RC-198 FILTER EQUIPMENT
RC-191 MARKER BEACON
AN/ALC-2 INTERPHONE
AN/APN-1 LOW ALT. ALTIMETER
AN/ARM-1 GLIDE PATH
AN/ASA-3 STATIC DISCHARGE

RED FIGURES ARE PRELIMINARY; SUBJECT TO REVISION AFTER FLIGHT CHECK.

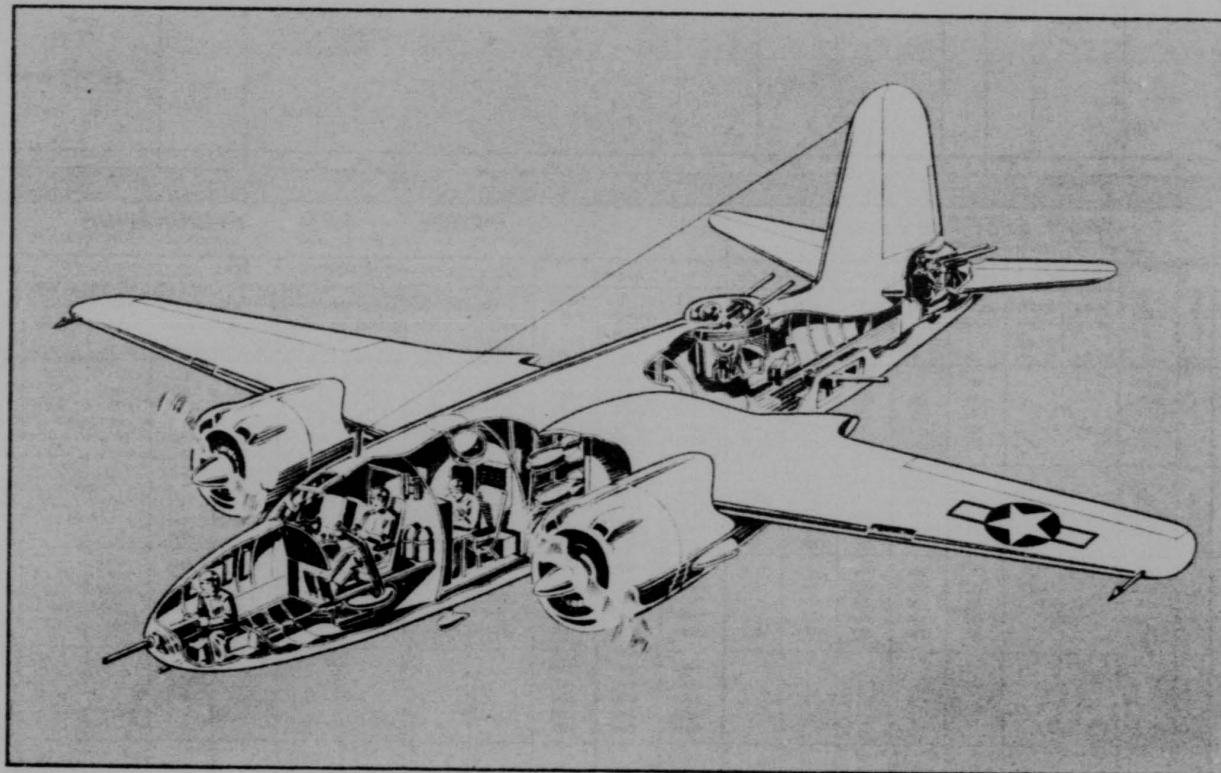
B-25 "MITCHELL"

MANUFACTURED BY NORTH AMERICAN (HOLLYWOOD) "NA" & (KANSAS CITY) "KC"

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PAGE 18
AS OF:
25 JAN. 1945



B-26 "MARAUDER"

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TACTICAL PLANNING CHARACTERISTICS & PERFORMANCE CHART																		
MODEL & BLOCK-NO.	ENGINE & PROP.		SIZE		WEIGHT		COMBAT CREW	FUEL & OIL		ARMAMENT			BOMBS			RADIO	REMARKS & REFERENCE	
	NUMBER	ENGINE MFR. MODEL SUPERCHARGER PROP. MFR. TYPE	B.H.P./ALT.		S-SPAN L-LENGTH H-HEIGHT T-TREAD W-WING AREA	B-BASIC C-COMBAT W-WAR MAX. M-MAX LAND		COMB. CREW	FUEL TANKAGE		NO. ROCKETS-SIZE-INSTALLATION			NO. AND SIZE				TYPICAL MODELS CARRIED (SEE 4)
			T-TAKE OFF W-WAR EMERG. M-MILITARY C-CONTINUOUS	1920/3200					1490/14300	1560/7100	1360/14600	TYPE OR LOCATION ALSO (MAX. OIL)	NO. AND CAPACITY ALSO (MAX. FUEL)	NO. GUNS AND SIZE	RDS. PER GUN	LOCATION AND TYPE		
B-26B-MA -10 thru -20	2	PRATT-WHITNEY R-2800-43 2 SPD. SUPERCHARGER CURTISS 13'6" DIA. -4 BL. F.F. ELECTRIC	T	1920/3200	S	71' 0"	B	25300	MAIN - WINGS 2 x 360 AUX. - WINGS 2 x 121 BOMB BAY (FOR & REAR) (83)	1) 200 2) 270 3) 240 4) 250	1) NOSE - FIXED 2) NOSE - FLEX. 3) SIDE WAIST - FLEX. 4) U. FUSEL. - PACKAGE	2-2000 2-1600 4-1000 8-500	1-2000T	2-1600 1-2000T 5200	SCR-211 SCR-269G SCR-274 SCR-287A SCR-522 SCR-535 SCR-574 SCR-595 RC-36 RC-43B RC-103 RC-198 RC-32	REFER TO PAGE 4 FOR "FOREWORD" REFER TO PAGE 3 FOR SECURITY CLASSIFICATION. REFER TO PAGE 5 FOR DEFINITIONS. REFER TO T.O. LISTED FOR DETAILED PLANNING. B-26B & C TECH. ORDER 01-35EB-1. (REV. 30 APRIL 1945) B-26F & G TECH. ORDER 01-35EC-1. (REV. 15 OCT. 1944) (a) EARLY MODELS HAVE FLEXIBLE TAIL MOUNT WITH 1500 ROUNDS PER GUN INSTEAD OF POWER MOUNT. (b) EARLY MODELS HAVE SAME NUMBER OF BOMB STATIONS AS LISTED ABOVE; DECREASE IN BOMB STATIONS AS NOTED DUE TO DELETION OF 2 REAR BOMB BAYS. (c) FUEL CAPACITY 20 GAL. PER TANK GREATER DUE TO INCREASE OF 3 1/2" ANGLE INCIDENCE OF WING.		
B-26C-MO -5 thru -25			W	1920/3200	H	21' 6"	C	37000									37000	4 x 250
B-26B-MA -25 thru -55	2	AS ABOVE	W	AS ABOVE	S	AS ABOVE	B	AS ABOVE	MAIN - WINGS 2 x 360 AUX. - WINGS 2 x 121 BOMB BAY (FOR ONLY) (83)	1) 200 2) 270 3) 240 4) 250	1) NOSE - FIXED 2) NOSE - FLEX. 3) SIDE WAIST - FLEX. 4) U. FUSEL. - PACKAGE	2-2000 2-1600 4-1000 8-500	1-2000T	5200	SCR-211 SCR-269G SCR-274 SCR-287A SCR-522 SCR-535 SCR-574 SCR-595 RC-36 RC-43B RC-103 RC-198 RC-32			
B-26C-MO -30 & -45			W	AS ABOVE	H	AS ABOVE	C	AS ABOVE								37000	2 x 250	2) -50
B-26F-MA -1, -2 & -6	2	AS ABOVE	T	1920/3200	S	71' 0"	B	25500	MAIN - WINGS 2 x 360 AUX. - WINGS 2 x 121 BOMB BAY (FOR ONLY) (83)	1) 300 2) 250 3) 275 4) 225	1) NOSE - FLEX. 2) SIDE WAIST - FLEX. 3) U. FUSEL. - PACKAGE	2-2000 2-1600 4-1000 8-500	NONE	4000	RC-36 RC-43B RC-103 RC-198 RC-32			
B-26G-MA -1 thru -25			W	AS ABOVE	H	20' 4"	C	34000								34000	2 x 250	2) -50


MODEL & BLOCK-NO.	TAKE OFF & LANDING HARD SURFACE - NO WIND				HIGH SPEED & CLIMB CLEAN AIRPLANE AT NORMAL COMBAT WEIGHT						RANGE AND ENDURANCE STATUTE AIR MILES - NO WIND - NO ALLOWANCE FOR RESERVE										REMARKS				
	TO CLEAR 50'		GROUND RUN		WEIGHT	STD. ALT.	WAR EMERG.		MIL. POWER		MAX. CONTIN. POWER		LOADING			MAX. CONTINUOUS POWER		MAX. CRUISE POWER		LONG RANGE					
	T.O. DIST.	LAND DIST.	T.O. DIST.	LAND DIST.			HIGH SPEED	RATE OF CLIMB	HIGH SPEED	RATE OF CLIMB	HIGH SPEED	RATE OF CLIMB	TIME TO CLIMB	TAKE OFF WEIGHT	BOMBS (WAR/NO. REAR)	TOTAL FUEL	at 10000 FT.	at 20000 FT.	at 10000 FT.	at 20000 FT.		at 10000 FT.	at 10000 FT.		
B-26B-MA -10 thru -20	32000	3000	3900	135	1800	20000		282	500	278	450	23.0	38200*	NONE	1462	1000	3.8	1075	6.4	2375	10.5	2050	9.1	2600	13.3
B-26C-MO -5 thru -25	34000	3500	4200	138	2300	10000	NONE	278	800	265	600	13.0	38200*	1500	1462	1000	3.8	1075	4.9	1700	7.8	1425	6.5	1825	9.2
B-26B-MA -25 thru -55	36000	4000	-	-	2700	5000		285	1000	269	900	6.0	36300	2000	962	700	2.5	675	3.0	1100	4.9	800	4.0	1200	6.2
B-26C-MO -30 & -45	38200	4400	-	-	3000	5000	S L	270	1200	254	875	0.0	38100	4000	962	650	2.5	675	3.1	1050	4.9	800	4.1	1075	5.4
B-26F-MA -1, -2 & -6	28000	-	-	122	-	20000		255 ^d	-	258	-	-	38000	NONE	1462	1000	3.8	1075	7.8	1725	7.8	1425	6.5	1825	9.2
B-26G-MA -1 thru -25	34000	3000	-	125	2200	10000	NONE	277	-	269	390	17.2	35200	2000	1002	725	2.6	700	3.1	1150	5.1	900	4.2	1250	6.5

NOTES: (a) SCR-211 FREQUENCY METER
SCR-269G RADIO COMPASS
SCR-274 COMMAND SET
SCR-287A LIAISON SET
SCR-522 COMMAND SET
SCR-535 SET
SCR-574 FREQUENCY METER SET (1FF)
SCR-595 SET (1FF)
RC-32 FILTER EQUIPMENT
RC-36 INTERPHONE AMPLIFIER
RC-43B MARKER BEACON
RC-103 LOCALIZER
RC-198 FILTER EQUIPMENT

RED FIGURES ARE PRELIMINARY; SUBJECT TO REVISION AFTER FLIGHT CHECK

MANUFACTURED BY MARTIN (BALTIMORE) "MA" & (OMAHA) "MO"

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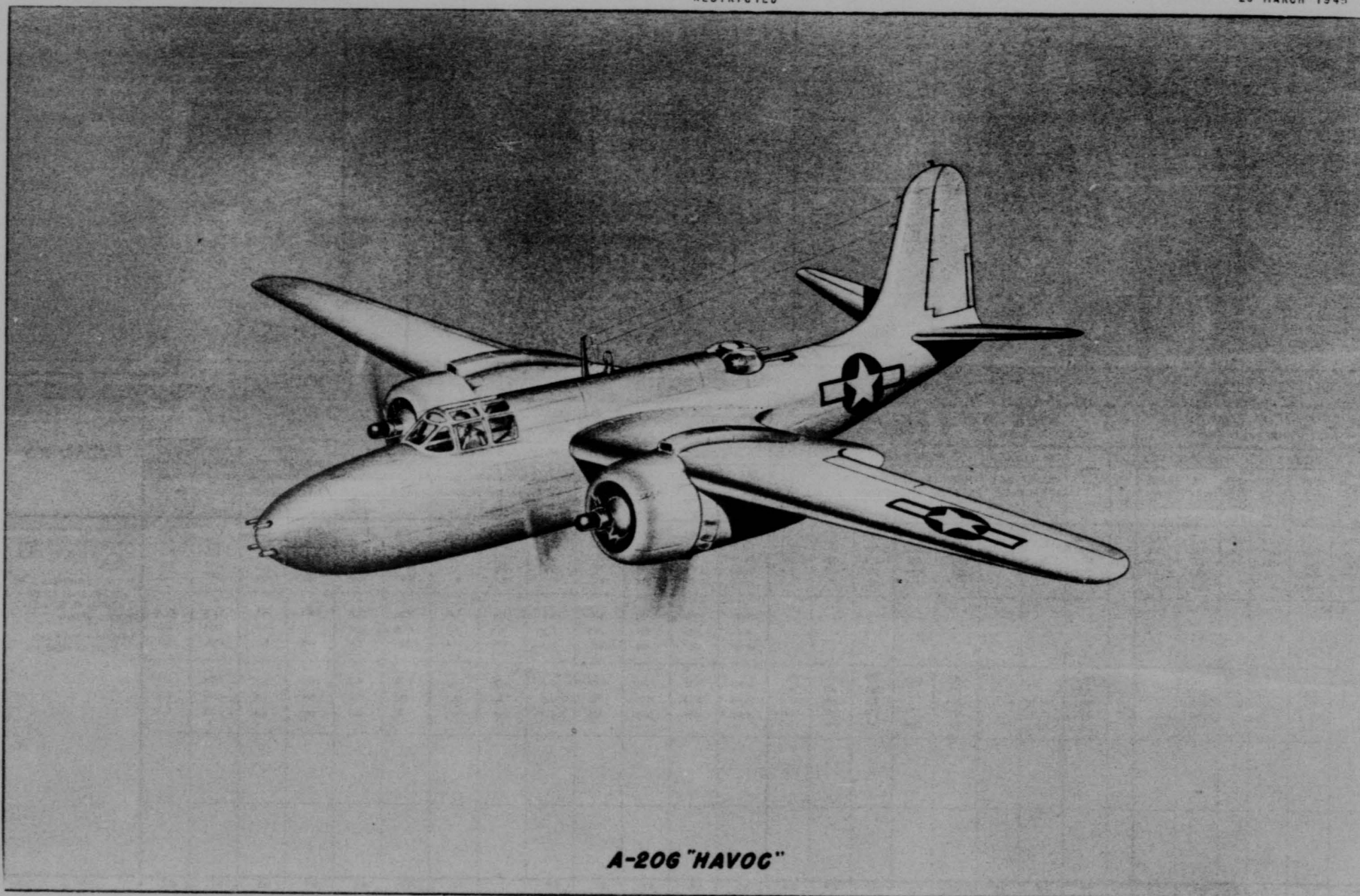


B-26
"MARAUDER"

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PAGE 20
AS OF:
26 MARCH 1945



A-206 "HAVOC"

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TACTICAL PLANNING CHARACTERISTICS & PERFORMANCE CHART																	
MODEL & BLOCK-NO.	ENGINE & PROP.			SIZE		WEIGHT		COMBAT CREW	FUEL & OIL		ARMAMENT			BOMBS		RADIO	REMARKS & REFERENCE
	NUMBER	ENGINE MFR. MODEL SUPERCHARGER PROP. MFR. TYPE	B.H.P./ALT.	S-SPAN L-LENGTH H-HEIGHT T-TREAD W-WING AREA	B-BASIC C-COMBAT W-WAR MAX. M-MAX.LAND.	NOTES	FUEL TANKAGE		(NO. ROCKETS-SIZE-INSTALLATION)			NO. AND SIZE		MAX. LOAD	TYPICAL MODELS CARRIED (SEE A)		
							TYPE OR LOCATION ALSO (MAX. OIL)		NO AND CAPACITY ALSO (MAX. FUEL)	NO GUNS AND SIZE	RDS PER GUN	LOCATION AND TYPE	INTERNAL			EXTERNAL	
A-20G-D0 -5 thru -15	2	WRIGHT R-2500-23 2 SPD. SUPERCH. HAMILTON STD. 11"3"DIAL.-3 BL. F.F., HYDROMATIC	T-1800/5 L W-1875/5 L M-1800/1000 C-11900/10000 11950/5000 1275/11500	S-51' 4" L-48' 0" H-17' 7" T-17' 0" W-465 Sq. Ft.	B-17200 C-24000 W-30600* M-24000		1	INRD. - WINGS 2 x 136 OUTRD. - WINGS 2 x 64 FUS. (BOMB B.) 2 x 70 DROPP. - WINGS 3 x 680 (46)	2	1-30 1-50** 1-50 6	500	TUNNEL - FLEX. REAR COCKPIT NOSE - FIXED	4-500 4-250 4-100	1-2000T (PARTIALLY EXTERNAL)	2000	SCR-274 SCR-522 SCR-535 SCR-595 SCR-595 WR-26 RC-32 RC-36 RC-198	REFER TO PAGE 4 FOR "FOREWORD" REFER TO PAGE 3 FOR SECURITY CLASSIFICATION. REFER TO PAGE 5 FOR DEFINITIONS. REFER TO T.O. LISTED FOR DETAILED PLANNING. A-20G & J TECH. ORDER 01-40-1 (REV. 5 MAR. 1945) A-20H & K TECH. ORDER 01-40A-1 (REV. 30 OCT. 1945) (*) NO TORPEDO PROVISIONS ON -40 & -45 MODELS. T TORPEDO (REPLACES INTERNAL BOMBS WHEN CARRIED) X EXTERNAL * 12(5") AR OR NYAR INSTALLED ON SOME MODELS IN SERVICE.
A-20G-D0 -20 thru -45	2	A S ABOVE	AS ABOVE	AS ABOVE	B-17700 C-25000 W-30000* M-24000		3	INRD. - WINGS 2 x 136 OUTRD. - WINGS 2 x 64 FUS. (BOMB B.) 3 - 325 DROPP. - WINGS 1 x 374 (46)	2	1-30 2-50 6	400 400 350	TUNNEL - FLEX. UPPER TURRET NOSE - FIXED	4-500 4-250 4-100	4-500 4-250 1-2000T	4000		
A-20J-D0 -1 thru -20	2	A S ABOVE	AS ABOVE	AS ABOVE	B-17800 C-25000 W-30000* M-24000		4	AS ABOVE	2	1-30 2	400 400 350	TUNNEL - FLEX. UPPER TURRET NOSE - FIXED	AS ABOVE EXCEPT NO TORPEDO PROVISIONS ON -15 & -20 MODELS.				
A-20H-D0 -1 thru -15	2	WRIGHT R-2500-29 2 SPD. SUPERCH. HAMILTON STD. 11"3"DIAL.-3 BL. F.F., HYDROMATIC	T-1700/3 L W-1850/5 L M-1700/5200 C-11450/13400 11500/6400 11350/15900	S-51' 4" L-48' 0" H-18' 1" T-17' 0" W-465 Sq. Ft.	B-17400 C-25000 W-30000* M-24000		3	AS ABOVE	2	1-30 2-50 5	400 400 350	TUNNEL - FLEX. UPPER TURRET NOSE - FIXED	4-500 4-250 4-100	4-500 4-250 4-100	4000		
A-20K-D0 -1 thru -15	2	A S ABOVE	AS ABOVE	AS ABOVE	B-17400 C-25000 W-30000* M-24000		4	AS ABOVE	2	1-30 2	400 400 350	TUNNEL - FLEX. UPPER TURRET NOSE - FIXED	AS ABOVE				

MODEL & BLOCK-NO.	TAKE OFF & LANDING HARD SURFACE-NO WIND						HIGH SPEED & CLIMB CLEAN AIRPLANE AT NORMAL COMBAT WEIGHT						RANGE AND ENDURANCE STATUTE AIR MILES-NO WIND-NO ALLOWANCE FOR RESERVE										REMARKS					
	GROSS WEIGHT LB	TO CLEAR 50'		GROUND RUN		STD. ALT. FT	WAR EMERG. SPEED MPH	MIL. POWER		MAX. CONTIN. POWER		LOADING			MAX. CONTINUOUS POWER				MAX. GRISE POWER		LONG RANGE							
		T.O. DIST.	LAND DIST.	T.O. DIST.	LAND DIST.			HIGH RATE OF CLIMB	HIGH RATE OF CLIMB	HIGH RATE OF CLIMB	TIME TO CLIMB	TAKE OFF WEIGHT	BOMBS CARRIED	TOTAL FUEL	at 10000FT.		at 20000FT.		at 10000FT.		at 10000FT.							
		FT	FT	FT	FT			FT/MIN	FT/MIN	FT/MIN	MIN	LB	LB	U.S. GAL	RANGE	ENDUR.	RANGE	ENDUR.	RANGE	ENDUR.	RANGE	ENDUR.						
A-20G-D0 -5 thru -15	19000 21000 24000 25000 27000	- 3900 4500 5500 7000	3300 3700 4000 - -	95 100 105 - -	2100 2300 2500 - -	20000 15000 10000 5000 S L	NO DATA	305 315 305 305 302	420 875 1180 1500 1500	302 313 305 297 283	350 750 1000 1300 1300	18.5 12.8 7.1 3.2 0.0	25300 24000 24000 24000	NOKE 2000 2000T 4000	1080 540 540 400	925 425 350	3.1 1.5 1.4	1050 475 425	3.6 1.8 1.7	1450 625 575	5.7 2.5 2.3	1575 675 625	6.7 2.9 2.8	2025 875 776	10.5 4.2 4.0	(b) FLIGHTS ABOVE 10000 FT. REQUIRE SPECIAL OXYGEN PROVISIONS.		
A-20G-D0 -20 thru -45	A S	A B O V E	A S	A B O V E	A S	20000 15000 10000 5000 S L	NO DATA	291 311 312 305 302	290 520 1000 1300 1300	280 299 295 290 276	- 500 850 100 100	- 16.5 8.8 3.5 0.0	26200 26000 26000 26000	NOKE 2000 2000T 4000	1099 725 725 400	725 600 475 375	2.5 2.0 1.8 1.1	1000 625 575 250	3.6 2.4 2.5 1.3	1625 1025 950 475	5.7 4.3 4.3 2.2	1450 900 775 325	5.1 4.0 3.8 1.8	1925 1175 1050 590	9.4 5.7 5.5 2.7			
A-20J-D0 -1 thru -20	A S	A B O V E	A S	A B O V E	A S	20000 15000 10000 5000 S L	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	
A-20H-D0 -1 thru -15	19000 21000 24000 25000 27000	- 2960 3500 4500 5000	3300 3700 4000 - -	94 100 108 - -	2100 2300 2500 - -	20000 15000 10000 5000 S L	NO DATA	315 322 320 305 300	575 1190 1250 1700 1700	307 317 302 289 285	500 1000 1100 1500 1500	18.0 11.8 6.6 2.5 0.0	25400 26000 26000 26100	NOKE 2000 2000 4000	1099 725 525 400	775 525 525 325	2.7 1.6 1.6 1.0	1025 575 575 250	3.6 2.1 2.1 1.0	1525 975 925 450	5.4 3.4 3.5 1.7	1650 925 825 375	5.3 3.5 3.5 1.5	1975 1225 1225 525	8.7 5.2 5.2 2.3			
A-20K-D0 -1 thru -15	A S	A B O V E	A S	A B O V E	A S	20000 15000 10000 5000 S L	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	

NOTES:
FIVE OF MORE OF FOLLOWING:
(A) SCR-274 COMMAND SET
SCR-522 COMMAND SET
SCR-535 IFF
SCR-591 IFF
SCR-595 IFF
WR-26 RADIO COMPASS
RC-32 FILTER EQUIPMENT
RC-36 INTERPHONE AMP.
RC-198 FILTER EQUIPMENT

RED FIGURES ARE PRELIMINARY; SUBJECT TO REVISION AFTER FLIGHT CHECK.



A-20
"HAVOC"

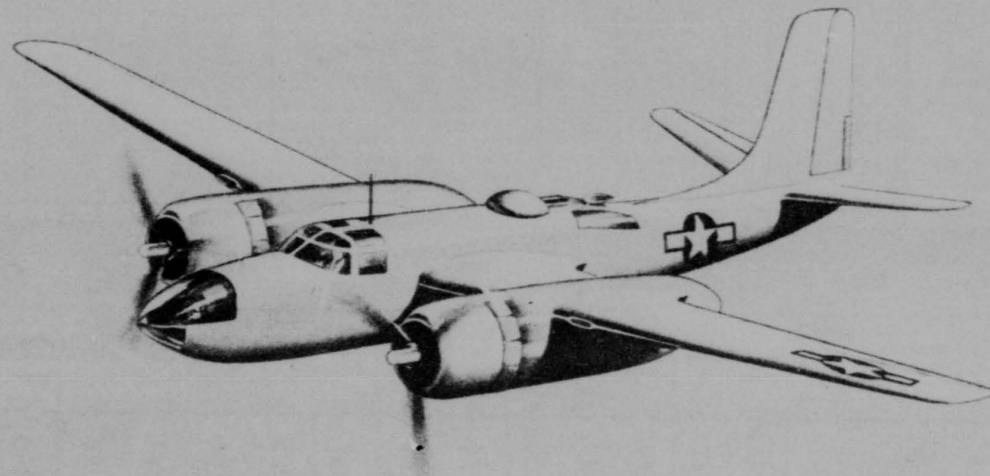
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PAGE 22
AS OF:
28 JULY 1945



A-26 C

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TACTICAL PLANNING CHARACTERISTICS & PERFORMANCE CHART																
MODEL & BLOCK-NO.	ENGINE & PROP.		SIZE		WEIGHT		COMBAT CREW	FUEL & OIL		ARMAMENT			BOMBS		RADIO	REMARKS & REFERENCE
	NUMBER	ENGINE MFR. MODEL SUPERCHARGER PROP. MFR. TYPE	B.H.P./ALT. T - TAKE OFF W - WAR EMERG. M - MILITARY C - CONTINUOUS	S-SPAN L-LENGTH H-HEIGHT T-TREAD W-WING AREA	B-BASIC C-COMBAT W-WAR MAX. M-MAX LAND	* NOTES		FUEL TANKAGE		(NO ROCKETS-SIZE-INSTALLATION)			NO. AND SIZE		TYPICAL MODELS CARRIED (SEE A)	
								TYPE OR LOCATION ALSO (MAX. OIL)	NO. AND CAPACITY ALSO (MAX. FUEL)	NO. GUNS AND SIZE	RDS. PER GUN	LOCATION AND TYPE	INTERNAL	EXTERNAL		
A-26B-DL -1 thru -5 A-26B-DT -5	2	PRATT-WHITNEY R-2800-27 SINGLE STG.-2 SPEED HAMILTON STD. 12"7"DIA.-3 BL. F.F., HYDROMATIC	T-2000/5 L W-2340/5 L M-1600/13500 C-1450/14000	S 70' L 50' H 18' 6" T 19' 6" W 540 Sq. Ft.	B 23275 C 35000 W 42300* M 31000		2	MAIN - WINGS 2 x 300 ADJ. - WINGS 2 x 100 BOMB BAY(S.) 1 x 125 B.BAY (FERRY) 1 x 675 (68)	2 x 300 2 x 100 1 x 125 1 x 675 (1800)	400 500 500 300	NOSE UPPER TURRET LOWER TURRET *WINGS	4-1000 6-500 8-250 16-100	2-2000 T 4-500 4-250 4-100	4-1000 4-500 6000	SCR-269 SCR-274 SCR-522 SCR-595 SCR-695 RW-26 RC-32 RC-36 RC-193 RC-198 AN/AIC-2 AN/APN-407 AN/APQ-9 AN/ARC-3 AN/AN-7 AN/ARC-8 AN/ASA-3 RDM SEE	A-26B & C TECH. ORDER 01-40AJ-1 (REV. 10 AUG. 1945) (a) THE REMOVABLE WING PACKAGE GUNS ARE AN ALTERNATE INSTALLATION AND MAY BE MOUNTED ON WING BOMB RACKS IN PLACE OF BOMBS. (b) R-2800-79 WATER INJECTION ENGINE INSTALLED ON A-26B-45-DL THRU -65 AND A-26C-45-DT AND SUBSEQUENT MODELS: WAR EMERGENCY AND MILITARY RATINGS SHOWN WITH WATER INJECTION: WATER CAPACITY 23 GAL. PER TANK. (c) TESTS ARE BEING CONDUCTED AT WEIGHTS IN EXCESS OF 35000 LB. AND INSTEAD 1 x 125 GAL. TANK INSTALLED. (d) LATEST A-26B-DL MODELS ONLY, HAVE LOWER TURRET REMOVED AND INSTEAD 1 x 125 GAL. TANK INSTALLED. (e) A-26C-55-DT & SUBSEQUENT MODELS HAVE 6-.50 CAL. INTERNAL WING BOMBS INSTALLED IN LIEU OF 8 WING PACKAGE GUNS CARRIED ON -15 THRU -50 MODELS. (f) SOME A-26B-50, -55 AND -60, ALL A-26B-65 AND SUBSEQUENT MODELS HAVE 8-.50 CAL. NOSE GUNS (350 RDS. EACH.) INSTALLED IN LIEU OF 6 NOSE GUNS. (g) ROCKETS INSTALLED ON A-26C-45 & SUBSEQUENT MODELS. T TORPEDO * EXTERNAL ← SPECIAL PROJECT MODIFICATION
A-26B-DL -10 thru -45 A-26B-DT -10 thru -25	2	PRATT-WHITNEY R-2800-27 or -71 SINGLE STG.-2 SPEED HAMILTON STD. 12"7"DIA.-3 BL. F.F., HYDROMATIC	T AS ABOVE W AS ABOVE M AS ABOVE C AS ABOVE	S 70' L 50' 7" H 18' 6" T 19' 6" W 540 Sq. Ft.	B 23325 C 35000 W 42300* M 31000		2	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE		
A-26B-DL -50 thru -65	2	PRATT-WHITNEY R-2800-27, -71, -79 SINGLE STG.-2 SPEED HAMILTON STD. 12"7"DIA.-3 BL. F.F., HYDROMATIC	T AS ABOVE W EXCEPT R-2800-79 IS RATED AS SHOWN BELOW M AS ABOVE C AS ABOVE	S 70' L 51' 3" H 18' 6" T 19' 6" W 540 Sq. Ft.	B 23890 C 35000 W 42300* M 31000		2	AS ABOVE EXCEPT B-55 THRU 65 HAVE 2 x 155 GAL. EXTERNAL WING TANKS ADDED GIVING TOTAL OF 1910 GAL.	14(5") ZERO LENGTH RAIL ROCKETS	400 300 500 500	NOSE WINGS UPPER TURRET LOWER TURRET *WINGS	AS ABOVE	AS ABOVE	AS ABOVE		
A-26C-DT -15 thru -60	2	AS ABOVE	T AS ABOVE W AS ABOVE M AS ABOVE C AS ABOVE	S 70' L 51' 3" H 18' 6" T 19' 6" W 540 Sq. Ft.	B 23750 C 35000 W 42300* M 31000		2	SOME A-26C-55 AND 60 MODELS HAVE EXTERNAL TANK PROVISIONS GIVING TOTAL OF 1910 GAL.	14(5") ZERO LENGTH RAIL ROCKETS	400 500 500 300	NOSE UPPER TURRET LOWER TURRET *WINGS	AS ABOVE	AS ABOVE	AS ABOVE		
A-26B CURRENT MODELS	2	PRATT-WHITNEY R-2800-79 SINGLE STG.-2 SPEED HAMILTON STD. 12"7"DIA.-3 BL. F.F., HYDROMATIC	T 2000/5 L W 2360/5 L M 2100/1500 C 1540/14500	S SAME AS A-26B L FOR A-26B H A-26B T LISTED W ABOVE	B 23200 C SEE C W 42300* M 31000		2	MAIN - WINGS 2 x 300 ADJ. - WINGS 2 x 100 BOMB BAY(S.) 1 x 125 B.BAY (FERRY) 1 x 675 EXTERNAL-WINGS LOWER FUSEL. 2 x 155 (68)	2 x 300 2 x 100 1 x 125 1 x 675 2 x 155 1 x 125 (2035)	450 300 800	NOSE WINGS UPPER TURRET	AS ABOVE	AS ABOVE	AS ABOVE		

MODEL & BLOCK-NO.	TAKE OFF & LANDING HARD SURFACE-NO WIND					HIGH SPEED & CLIMB CLEAN AIRPLANE AT NORMAL COMBAT WEIGHT					RANGE AND ENDURANCE STATUTE AIR MILES-NO WIND-NO ALLOWANCE FOR RESERVE										REMARKS						
	GROSS WEIGHT	TO CLEAR 50'		GROUND RUN		WEIGHT	STD. ALT.	WAR EMERG.		MIL. POWER		MAX. CONTIN. POWER		LOADING			MAX. CONTINUOUS POWER		MAX. CRUISE POWER			LONG RANGE					
		T.O. DIST.	LAND FT.	T.O. DIST.	LAND FT.			HIGH SPEED	RATE OF CLIMB	HIGH SPEED	RATE OF CLIMB	HIGH SPEED	RATE OF CLIMB	HIGH SPEED	RATE OF CLIMB	TIME TO CLIMB	TAKE OFF WEIGHT	BOMBS CARGO	TOTAL FUEL	at 10000 FT.		at 20000 FT.	at 10000 FT.	at 20000 FT.	at 10000 FT.	at 10000 FT.	
A-26 SERIES	25000 29000 32000 35000 38000	- 4300 5500 7200 9100	3400 4000 - - -	88 105 - - -	1900 2600 3400 4400 5600	2200 - - - -	20000 15000 10000 5000 5 L	351 373 357 360	NO DATA	338 360 342 350 335	350 825 1150 1550 2025	300 345 325 325 305	23.5 13.5 8.0 3.5 0.0	37200 31400 34400 34600	NONE NONE 3000 4000	2035 925 925 800	1450 650 650 550	4.8 2.0 2.0 1.7	1975 900 850 725	6.5 2.8 2.8 2.4	2700 1375 1250 1050	9.7 4.7 4.9 3.7	2500 1375 1300 1075	9.1 4.7 4.9 4.1	3450 1825 1525 1275	16.1 7.6 6.8 5.7	(*) SPECIAL PROVISIONS FOR OXYGEN REQUIRED. (1) HIGH SPEED DECREASES APPROX. 10 M.P.H. & RATE OF CLIMB 150 FT. PER MINUTE WHEN 8 EXTERNAL PACKAGE GUNS ARE CARRIED. FLIGHT TEST IN PROGRESS A-26B HIGH SPEED LOSSES AT MAX. COMB. T. POWER WHEN CARRYING ROCKETS ARE AS FOLLOWS: (8) 5" HYAR ON ZERO RAILS 4000' 10000' 5 mph. 7 mph. (14) 5" HYAR ON ZERO RAILS 4000' 10000' 17 mph. 16 mph.

- NOTES: FIVE OR MORE OF FOLLOWING:
- (A) SCR-269 RADIO COMPASS
 - SCR-274 COMMAND SET
 - SCR-522 COMMAND SET
 - SCR-595 IFF
 - SCR-695 IFF
 - RW-26 RADIO COMPASS
 - RC-32 FILTER EQUIPMENT
 - RC-36 INTERPHONE AMP.
 - RC-193 MARKER BEACON
 - RC-198 FILTER EQUIPMENT
 - AN/AIC-2 INTERPHONE
 - AN/APN-4 or 9 LORAN
 - AN/ARC-3 COMMAND (W/F)
 - AN/AN-7 RADIO COMPASS
 - AN/ARC-8 LIAISON SET
 - AN/ASA-3 STATIC DISCHARGE
 - RDM RADIO COUNTER MEASURE
 - SEE BRITISH LORAN
 - AN/APQ-9 JAMMING TRANSMITTER

RED FIGURES ARE PRELIMINARY: SUBJECT TO REVISION AFTER FLIGHT CHECK.



A-26
"INVADER"

MANUFACTURED BY DOUGLAS (LONG BEACH) "DL" & (TULSA) "DT"


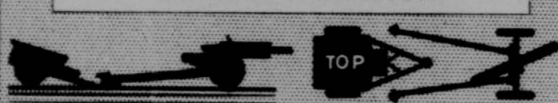

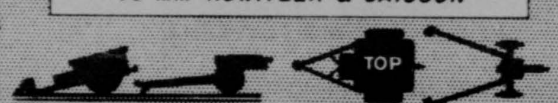



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PAGE 24
AS OF:
29 JUNE 1945

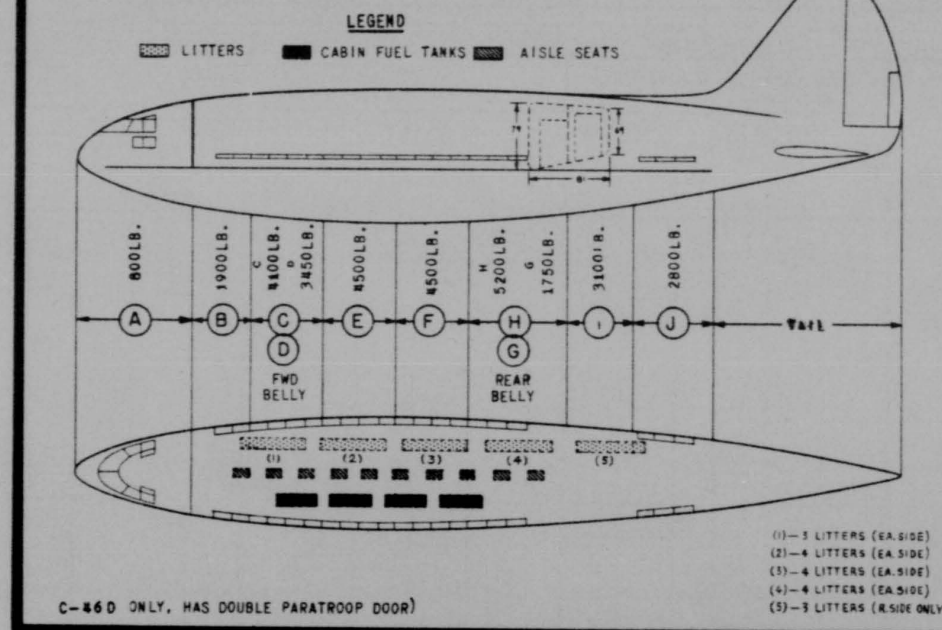
LOADING THE CURTISS "COMMANDO"

ITEM	WEIGHT	STATION
JEEP 	3100 LB.	(C) THRU (H)
105 MM GUN & CAISSON 	GUN 4300LB. CAISSON 4700LB.	(E) THRU (H)
LITTERS 	3 TIER LITTER 50LB. OXYGEN BOTTLE 138LB.	REAR - (B) THRU FORE - (J)
75 MM HOWITZER & CAISSON 	HOWITZER 2100LB. CAISSON 5000LB.	(C) THRU (H)
37 MM GUN & MOTOR CHASSIS 	5500LB.	(C) THRU (H)
75 MM GUN & CAISSON 	GUN 3400LB. CAISSON 5000LB.	(C) THRU (H)
LARGE ENGINE & MOUNT 	4900LB.	(C) THRU (I)

WEIGHT LEGEND

- ATTENDANT OR PASSENGER — 200LB.
- TROOP AND EQUIPMENT — 240LB.
- LITTER (INCL. PATIENT) — 250LB.
- PARACAN — 250LB.
- PARATROOPER — 260LB.

LOADING STATIONS OF THE C-46



ANY COMBINATION OF CARGO CAN BE CARRIED BUT MUST SATISFY FOUR REQUIREMENTS: (1) Total weight. (2) Space limitations. (3) Center of gravity. (4) Floor loading. (Typical items are illustrated).

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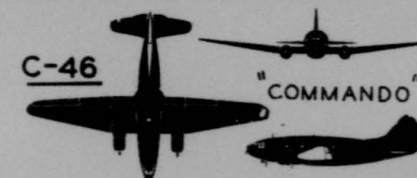
TACTICAL PLANNING CHARACTERISTICS & PERFORMANCE CHART																		
MODEL & BLOCK-NO.	ENGINE & PROP.		SIZE		WEIGHT		COMBAT CREW	FUEL & OIL		CARGO OR PASSENGERS			RADIO		REMARKS & REFERENCE			
	NUMBER	ENGINE MFR. MODEL SUPERCHARGER PROP. MFR. TYPE	B.H.P./ALT.		S-SPAN L-LENGTH H-HEIGHT T-TREAD W-WING AREA	B-BASIC C-COMBAT W-WAR MAX. M-MAX.LAND.		NOTES	FUEL TANKAGE		STATION	CAPACITY	MAX. LOAD LB.	STATION	PLACES	MAX. LOAD LB.	TYPICAL MODELS CARRIED	REFER TO PAGE 4 FOR "FOREWORD" REFER TO PAGE 3 FOR SECURITY CLASSIFICATION. REFER TO PAGE 5 FOR DEFINITIONS. REFER TO T.O. LISTED FOR DETAILED PLANNING.
			T-TAKE OFF W-WAR EMERG. M-MILITARY C-CONTINUOUS	T-TAKE OFF W-WAR EMERG. M-MILITARY C-CONTINUOUS					TYPE OR LOCATION ALSO (MAX. OIL)	NO. AND CAPACITY ALSO (MAX.FUEL)								
C-46A-5 thru -51 (C) C-46A-1, -5, -55, -60 C-46A-1 (CS) C-46D-1 thru -20 (C)	2	PRATT-WHITNEY R-2800-51 or -75 2 SPEED-SINGLE STL CURTISS 13" x 14" DIA. - 4 BL. F.F., ELECTRIC	T 2000 / S L W NONE M 2000 / 1500 1600 / 13500 1600 / 5700 C 1450 / 13000	S 108' 0" L 76' 8" H 22' 0" T 26' 0" W 1380 Sq. Ft.	B 31500 C 49800** W 56000* M 49500	PERMISSIBLE ONLY WITH ALL WING TAKE OFF.	4	WING - FORE 2 x 244 WING-CENTER 2 x 285 WING - REAR 2 x 171 FUSEL. - REMOVE 9 x 100 (80 + 40)	2 x 244 2 x 285 2 x 171 9 x 100 (2302)	CARIN (MAIN) BELLY (FDRM) BELLY (APT)	10000 3700 1800	15000	TROOPS ^a OF LITTERS ATTENDANTS	50 OF 33 4	12000 OF 9000	SCR-211, 289, 274W, 287, 51R 522, 578 595, RC-26, 43, 103, 196, W-25 AN/A1C-2, 3 AN/ARA-10 AN/ARC-3, R, 7 AN/ARN-5, 7, 11 AN/ARR-1 AN/ASA-1 AN/APN-1, 2, 4, 9	C-46A, D & F TECH. ORDER U1-25LA-1 (REV. 5 OCT. 1945) (a) LATER C-46D'S HAVE EXTRA PARATROOP DOOR. ** PROVIDED T.O. 01-25LA-59 DATED 20 JULY 49 IS COMPLIANT WITH.	
C-46F-CU -1 thru -5	2	PRATT-WHITNEY R-2800-75 2 SPEED-SINGLE STL HAMILTON STD. 15" x 14" DIA. - 3 BL. F.F., HYDRAULIC	T AS ABOVE W AS ABOVE M AS ABOVE C AS ABOVE	S AS ABOVE L AS ABOVE H AS ABOVE T AS ABOVE W AS ABOVE	B 31700 C 49800** W 56000* M 49500		4	AS ABOVE		AS ABOVE		AS ABOVE	AS ABOVE					

MODEL & BLOCK-NO.	TAKE OFF & LANDING HARD SURFACE-NO WIND				HIGH SPEED & CLIMB CLEAN AIRPLANE AT NORMAL COMBAT WEIGHT						RANGE AND ENDURANCE STATUTE AIR MILES-NO WIND- NO ALLOWANCE FOR RESERVE										REMARKS					
	TO CLEAR 50'		GROUND RUN		WEIGHT	STD. ALT.	WAR EMERG.		MIL. POWER		MAX. CONTIN. POWER		LOADING		MAX. CONTIN.		LONG RANGE		CRUISE							
	GROSS WEIGHT	T.O. DIST.	LAND DIST.	LANDING SPEED			T.O. DIST.	LAND DIST.	HIGH SPEED	RATE OF CLIMB	HIGH SPEED	RATE OF CLIMB	HIGH SPEED	RATE OF CLIMB	TIME TO CLIMB	TAKE OFF WEIGHT	BOMBS CARGO	TOTAL FUEL	at 10000 FT.	at 5000 FT.		at 10000 FT.	at 15000 FT.	at 20000 FT.		
C-46A-5 thru -51 (C) C-46A-1p-5p-51p-10 (C) C-46A-1 (CS) C-46D-1 thru -20 (C)	34000 38000 40000 45000 50000	- 2100 2300 2900 3500	2300 2500 2600 2800 -	82 88 94 96 -	- 1500 1600 1600 -	1100 1400 1500 1600 -	15000 10000 5000 S L	270 264 262 245	525 700 825 900	248 240 234 220	350 450 625 615	29.2 17.4 7.9 0.0	50000 45000 46000 50000	1400 4000 5000 19000	2302 1402 1060 1060	1500 900 650 625	5.2 3.8 2.7 2.7	2975 1800 1300 1225	17.2 10.3 7.3 7.0	2975 1750 1250 1150	15.4 9.8 6.7 6.2	2825 1700 1200 1000	14.6 10.2 7.3 5.3	2475 ^b 1500 1030 950 ^b	13.8 ^b 9.0 6.3 5.6 ^b	(b) FIRST 4 HRS. OF FLIGHT AT 15000 FT. ALTITUDE. (c) FIRST 3 HRS. OF FLIGHT AT 15000 FT. ALTITUDE.
C-46F-CU -1 thru -5		AS ABOVE	AS ABOVE	AS ABOVE			15000 10000 5000 S L	278 270 275 253	525 700 850 950	255 243 239 222	325 450 675 650	25.8 16.5 7.6 0.0	50000 45000 46000 50000	1200 3400 5800 9800	2302 1402 1060 1060	1425 950 650 625	5.0 3.5 2.7 2.7	3050 1850 1350 1250	18.7 11.8 8.4 7.7	3025 1850 1300 1200	17.8 11.0 7.9 7.0	2950 1825 1200 1150	16.8 10.3 7.3 6.5	2650 ^c 1950 1150 1000 ^c	14.3 ^c 9.0 6.3 5.9 ^c	

NOTES:

EARLY TYPES	NAME	LATER TYPES
AN/AP-7	FREQUENCY METER	AN/AP-7A, 11
AN/AP-7B, 22	COMPASS	AN/AP-7A, 11
AN/AP-7C, 22	COMMAND SET	AN/AP-7E
AN/AP-7D	ALTIMETER SET	AN/AP-7E
AN/AP-7E	HIGH ALTITUDE ALTIMETER	-
AN/AP-7F	EMERGENCY TRANSMITTER	-
AN/AP-7G	-	AN/AP-7E
AN/AP-7H	INTERPHONE	AN/AP-7A, T
AN/AP-7I	MARKER BEACON	AN/AP-7A, T
AN/AP-7J	LOCAL SET	-
AN/AP-7K	FLIGHT INSTRUMENT	-
AN/AP-7L	LOW ALTITUDE ALTIMETER	AN/AP-7E
AN/AP-7M	REBECCA (SEARCH RECEIVER)	AN/AP-7E
AN/AP-7N	COAX	AN/AP-7E
AN/AP-7O	PANEL CONTROL SYSTEM	AN/AP-7E
AN/AP-7P	SLIDE PATH	AN/AP-7E
AN/AP-7Q	ANTI-ICE	AN/AP-7E
AN/AP-7R	STATIC DISCHARGE	AN/AP-7E

RED FIGURES ARE PRELIMINARY: SUBJECT TO REVISION AFTER FLIGHT CHECK.



MANUFACTURED BY CURTISS (BUFFALO) "CU"; (ST. LOUIS) "CS" & (LOUISVILLE) "CK"

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26

28 JULY 1945

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LOADING THE DOUGLAS "SKYTRAIN"



ITEM	WEIGHT	STATION
JEEP 	3100 LB.	(D) OR (E)
LITTERS 	4 TIER LITTER 50 LB. OXYGEN BOTTLE 138 LB.	(D) THRU (F)
75 MM HOWITZER & CAISSON 	HOWITZER 2100 LB. CAISSON 5000 LB.	(D) THRU (F)
37 MM GUN & MOTOR CHASSIS 	5500 LB.	(D) AND (E)
75 MM GUN & CAISSON 	GUN 3400 LB. CAISSON 5000 LB.	(D) THRU (F)
LARGE ENGINE & MOUNT 	4900 LB.	(D) AND (E)

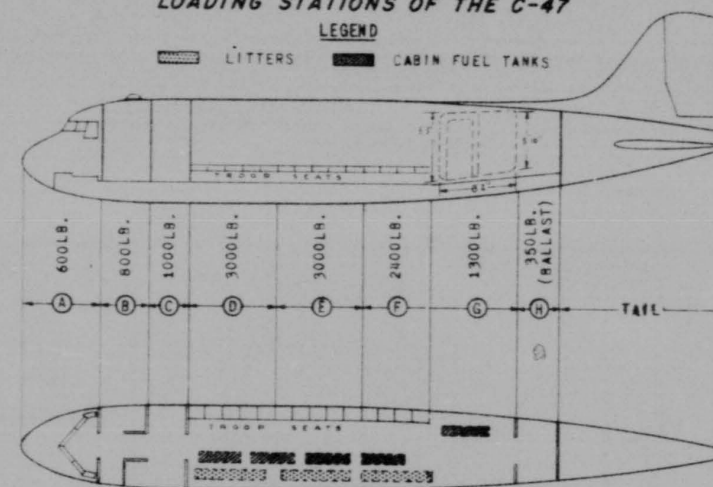
WEIGHT LEGEND

ATTENDANT OR PASSENGER — 200 LB.
TROOP AND EQUIPMENT — 240 LB.
LITTER (INCL. PATIENT) — 250 LB.
PARACAN — 250 LB.
PARATROOPER — 260 LB.

LOADING STATIONS OF THE C-47

LEGEND

 LITTERS  CABIN FUEL TANKS



(3) 4 TIER LITTERS EA. SIDE
RH-14
LH-13) TROOPS

ANY COMBINATION OF CARGO CAN BE CARRIED BUT MUST SATISFY FOUR REQUIREMENTS: (1) Total weight. (2) Space limitations. (3) Center of gravity. (4) Floor loading. (Typical items are illustrated).

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TACTICAL PLANNING CHARACTERISTICS & PERFORMANCE CHART																			
MODEL & BLOCK-NO.	ENGINE & PROP.			SIZE		WEIGHT		COMBAT CREW	FUEL & OIL		CARGO OR PASSENGERS			RADIO	REMARKS & REFERENCE				
	NUMBER	ENGINE MFR. MODEL SUPERCHARGER PROP MFR. TYPE	B.H.P./ALT. T - TAKE OFF W - WAR EMERG. M - MILITARY C - CONTINUOUS	S-SPAN L-LENGTH H-HEIGHT T-TREAD W-WING AREA	B-BASIC C-COMBAT W-WAR MAX. M-MAX.LAND.	NOTES	FUEL TANKAGE		STATION	CAPACITY	MAX. LOAD	STATION	PLACES	MAX. LOAD	TYPICAL MODELS CARRIED SEE (A)	REFER TO PAGE 4 FOR "FOREWORD" REFER TO PAGE 3 FOR SECURITY CLASSIFICATION. REFER TO PAGE 5 FOR DEFINITIONS. REFER TO T.O. LISTED FOR DETAILED PLANNING.			
							TYPE OR LOCATION ALSO (MAX OIL)												NO AND CAPACITY ALSO (MAX FUEL)
C-47A thru -90 (DL) C-47A thru -30 (DK) C-53C & D (DL)	2	PRATT-WHITNEY R-1830-92 INTEGRAL SUPER. HAMILTON STD. 11'7" DIA. - 3 BL. F.F., HYDROMATIC	T 1200/ 5 L W NONE M 1200/ 5000 C 1050/ 7500	S 95' 6" L 63' 9" H 17' 0" T 18' 6" W 98' 3/4" Ft.	B 18200 C 29300 W 35500** M 29300	PERMISSIBLE ONLY WITH ALL WING TANKS FULL.	MAIN-WINGS 2 x 202 AIL-WINGS 2 x 200 FUELS (REMOVE) 8 x 100 (56) (1704)	CARIN-MAIN	10000	10000	TROOPS or LITTERS ATTENDANTS	27* or 24 3	6500 or 6600	SCR-187,211, 269, 274, 287, 522, 578, 595 & 595. RC-35, 43, 103, 193 & 198. AN/APN-1,2 AN/ARN-5,7 AN/ARR-1 AN/ASA-1,3 AN/AM-9 RC-32 AN/AIA-1 SCR-717 GEE	C-47A & B TECH. ORDER 01-40NC-1. (REV. 22 JUNE 1945) (a) LATEST MODELS CARRY 9 TANKS; EARLIER MODELS - 8 TANKS. (b) C-53's CARRY 28 TROOPS & HAVE SMALL CARGO 300R. (c) LATEST MODELS INSTALLED WITH 24 LITTERS; EARLIER MODELS - 18 LITTERS. (d) CONVERSION OF C-47B AIRPLANES INTO C-47D AIRPLANES IS NOW UNDERWAY IN COMPLIANCE WITH T.O. 01-40N-77 DATED 6 NOV. 1945. THE TWO SPEED CLUTCH IS REMOVED FROM THE R-1830-90C ENGINE CHANGING IT TO AN R-1830-90D ENGINE WITH SINGLE SPEED BLOWER.				
C-47B-DK -I thru -90 C-47B-DL -I	2	PRATT-WHITNEY R-1830-90C 2 STAGE - 2 SPD. HAMILTON STD. 11'7" DIA. - 3 BL. F.F., HYDROMATIC	T 1200/ 5 L W NONE M 1200/ 5000 C 1050/ 7500	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE		
C-47D (a)			T W M C	S L H T W	B C W M														
			T W M C	S L H T W	B C W M														
			T W M C	S L H T W	B C W M														
			T W M C	S L H T W	B C W M														
COLUMN	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	

MODEL & BLOCK-NO.	TAKE OFF & LANDING				HIGH SPEED & CLIMB								RANGE AND ENDURANCE												REMARKS																						
	GROSS WEIGHT	TO CLEAR 50'		GROUND RUN		WEIGHT	STD. ALT.	WAR EMERG.		MIL. POWER		MAX. CONTIN. POWER		LOADING			MAX. CONTIN.		LONG RANGE CRUISE																												
		T.O. DIST.	LAND DIST.	T.O. DIST.	LAND DIST.			HIGH SPEED	RATE OF CLIMB	HIGH SPEED	RATE OF CLIMB	HIGH SPEED	RATE OF CLIMB	TAKE OFF WEIGHT	BOMBS CARGO PASS.	TOTAL FUEL	RANGE at 10000FT.	ENDUR. at 10000FT.	RANGE at 5000FT.	ENDUR. at 5000FT.	RANGE at 10000FT.	ENDUR. at 10000FT.	RANGE at 15000FT.	ENDUR. at 15000FT.		RANGE at 20000FT.	ENDUR. at 20000FT.																				
C-47A thru -90 (DL) C-47A thru -30 (DK) C-53C & D (DL)	20000 24000 25000 29000 31000	- 2000 2400 3200 3700	2000 2400 2700 -	74 76 1800 2000 2300	1200 1500 1800 2000 2300	20000 15000 10000 5000 S L	20000 15000 10000 5000 S L	NOT APPLICABLE AT THIS WEIGHT						29300 26000 29300 31000	NONE 500 5000 5700	1604 1004 804 804	2075 ^b 1400 ^b 975 ^b 925 ^b	10.0 ^b 8.8 ^b 4.8 ^b 4.8 ^b	3500 2200 1800 1450	22.5 14.3 9.9 9.1	3425 2200 1525 1450	20.5 12.4 9.0 8.6	3625 2250 1525 1425	20.5 12.7 9.2 8.0	3380 2225 1325 1200 ^c	19.0 12.5 7.5 6.9																					
C-47B-DK -I thru -90 C-47B-DL -I	20000 24000 25000 29000 31000	- 2400 3000 4100 4800	2500 2700 3400 -	70 74 1800 2000 2700	1600 1700 2000 2000 2700	25000 20000 15000 10000 5000 S L	25000 20000 15000 10000 5000 S L	NONE	NO DATA	225 500 775 1000 1175 1250	213 224 224 220 208	460 730 940 1080 1050	24.0 15.5 9.5 4.5 0.0	30000 29000 26000 31000	NONE 500 1700 5000 5700	1704 1004 804 804 804	1250 875 575 550 550	5.7 3.9 2.6 2.6 2.6	3250 2250 1500 1450 1425	20.8 14.5 9.5 9.4 9.2	3200 2200 1475 1375 1250	19.8 13.7 8.7 9.0 8.1	3025 ^d 2050 ^d 1400 1050 ^e 1075 ^d	17.6 ^d 11.0 ^d 8.0 7.6 ^d 6.6 ^d	2900 ^d 1900 ^d 1300 ^d 1050 ^d (IMPRACTICAL)	17.5 ^d 11.0 ^d 7.4 ^d 6.7 ^d (IMPRACTICAL)																					
C-47D (a)	PERFORMANCE IS APPROXIMATELY THE SAME AS THE C-47A.																																														

NOTES:

- (A) SCR-187 LIAISON SET
- SCR-211 FREQUENCY METER
- SCR-199 RADIO COMPASS
- SCR-274 COMMAND SET
- SCR-267 LIAISON SET
- SCR-112 COMMAND SET
- SCR-578 EMERGENCY TRANSMITTER
- SCR-595 IFF
- SCR-695 IFF
- RC-34 INTERPHONE
- RC-43 MARKER RECOGN
- RC-35 FILTER EQUIPMENT
- SCR-717
- RC-103 LOCALIZER
- RC-104 MARKER RECOGN
- RC-146 FILTER EQUIPMENT
- AN/APM-1 LOW ALTITUDE ALTIMETER
- AN/APM-2 "BEEHIVE" RECOGN (RECEIVER)
- AN/ASA-5 GLIDE PATH
- AN/ARN-7 RADIO
- AN/AMP-1 HOMOING ADAPTER
- AN/ASA-11 STATIC DISCHARGE
- AN/AIA-1
- AN/ATM-9
- GEE
- LOBBAN (BRITISH)

RED FIGURES ARE PRELIMINARY: SUBJECT TO REVISION AFTER FLIGHT CHECK.



MANUFACTURED BY DOUGLAS (LONG BEACH) "DL" 6 (OKLAHOMA CITY) "DK"








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AS OF:
29 JUNE 1946

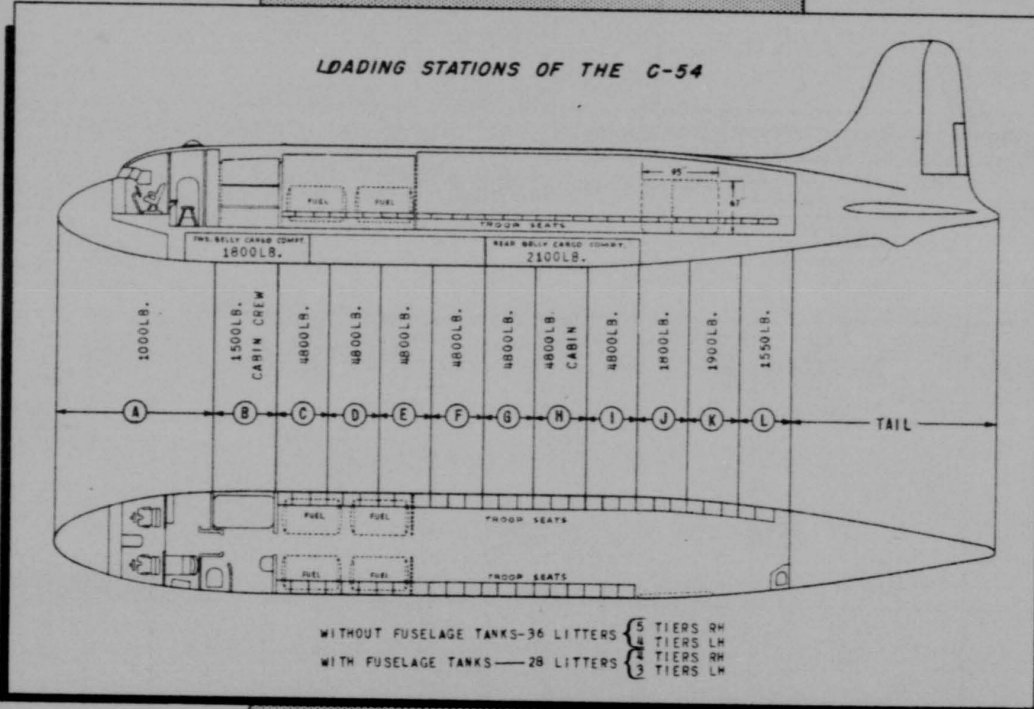
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LOADING THE DOUGLAS "SKYMASTER"

ITEM	WEIGHT	STATION
JEEP 	3100 LB.	(C) THRU (L)
105 MM GUN & CAISSON 	GUN 4300LB. CAISSON 4700LB.	INTERNAL (C) THRU (L) EXTERNAL (E)
LITTERS 	3 TIER LITTER 50LB. OXYGEN BOTTLE 138LB.	(C) THRU (L)
37 MM GUN & MOTOR CHASSIS 	5500LB.	(C) THRU (L)
75 MM GUN & CAISSON 	GUN 3400LB. CAISSON 5000LB.	INTERNAL (C) THRU (L) EXTERNAL (E)
LARGE ENGINE & MOUNT 	4900LB.	(C) THRU (L)
LIGHT TANK 	15,500 LB.	EXTERNAL ONLY (F)

WEIGHT LEGEND

- ATTENDANT OR PASSENGER — 200LB.
- TROOP AND EQUIPMENT — 240LB.
- LITTER (INCL. PATIENT) — 250LB.
- PARACAN — 250LB.
- PARATROOPER — 260LB.



ANY COMBINATION OF CARGO CAN BE CARRIED BUT MUST SATISFY FOUR REQUIREMENTS: (1) Total weight. (2) Space limitations. (3) Center of gravity. (4) Floor loading. (Typical items are illustrated).

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TACTICAL PLANNING CHARACTERISTICS & PERFORMANCE CHART

PAGE 29
AS OF 1 JANUARY 1945

MODEL & BLOCK-NO.	ENGINE & PROP.		SIZE	WEIGHT	COMBAT CREW	FUEL & OIL		CARGO OR PASSENGERS			RADIO	REMARKS & REFERENCE				
	NUMBER	ENGINE MFR. MODEL SUPERCHARGER PROP MFR. TYPE	B.H.P./ALT.	S-SPAN L-LENGTH H-HEIGHT T-TREAD W-WING AREA		B-BASIC C-COMBAT W-WAR EMERG. M-MILITARY C-CONTINUOUS	FUEL TANKAGE		STATION	CAPACITY	MAX LOAD		STATION	PLACES	MAX LOAD	TYPICAL MODELS CARRIED
			T-TAKE OFF W-WAR EMERG. M-MILITARY C-CONTINUOUS				TYPE OR LOCATION (MAX. OIL)	NO. AND CAPACITY (MAX. FUEL)								
C-54A-DO -1 thru -3	4	PRATT-WHITNEY R-2000-7 2 SPEED HAMILTON STD. 13" DIA. -3 BL. F.F., HYDROMATIC	T 1350/ S L W NONE M {1350/ 2000 1100/ 9000 C 1000/ 14000	S 117' 6" L 92' 10" H 27' 6" T 24' 8" W 1460 Sq.	B 37000 C 73000 W 87000* M 73000	5	INRD.-WINGS 2 x 450 FUSEL. (REMOVE) 4 x 450 (138) (3620)	CABIN-MAIN 27100 BELLY-FORE 1800 BELLY-AFT 2100 BAGGAGE 1500	32500	TROOPS* 50* LITTERS* 36* ATTENDANTS 4	12000 9800	SCR-211 SCR-269 SCR-274 SCR-287 SCR-515 SCR-522 SCR-578 SCR-595 SCR-695 SCR-718 RC-32 RC-36 RC-43 RC-103 RC-198 RC-198 MK-26 AN/AIC-3 AN/APN-4 AN/APN-9 AN/ARA-10 AN/ARC-8 AN/ARC-9 AN/APN-5 AN/APN-7 AN/ARN-11 AN/ASA-1 AN/ASA-3 RC-1023	REFER TO PAGE 4 FOR "FOREWORD" REFER TO PAGE 3 FOR SECURITY CLASSIFICATION REFER TO PAGE 5 FOR DEFINITIONS. REFER TO T.O. LISTED FOR DETAILED PLANNING.			
C-54A-DC -1 thru -15			AS ABOVE	AS ABOVE	AS ABOVE		AS ABOVE	AS ABOVE						AS ABOVE	AS ABOVE	AS ABOVE
C-54B-DO -1 thru -20	4	AS ABOVE	T 1350/ S L W NONE M {1350/ 1000 1100/ 16000 C 1000/ 17000	S 117' 6" L 92' 10" H 27' 6" T 24' 8" W 1460 Sq.	B 39400 C 73000 W 87000* M 73000	6	INRD.-WINGS 2 x 480 OUTRD.-WINGS 2 x 420 AUX. - WINGS 2 x 420 FUSEL. (REMOVE) 2 x 550 (138) (3740)	AS ABOVE	32500	TROOPS* 48* LITTERS* 36* ATTENDANTS 4	11760 9800	SCR-211 SCR-269 SCR-274 SCR-287 SCR-515 SCR-522 SCR-578 SCR-595 SCR-695 SCR-718 RC-32 RC-36 RC-43 RC-103 RC-198 RC-198 MK-26 AN/AIC-3 AN/APN-4 AN/APN-9 AN/ARA-10 AN/ARC-8 AN/ARC-9 AN/APN-5 AN/APN-7 AN/ARN-11 AN/ASA-1 AN/ASA-3 RC-1023	REFER TO PAGE 4 FOR "FOREWORD" REFER TO PAGE 3 FOR SECURITY CLASSIFICATION REFER TO PAGE 5 FOR DEFINITIONS. REFER TO T.O. LISTED FOR DETAILED PLANNING.			
C-54B-DC -1 thru -15			AS ABOVE	AS ABOVE	AS ABOVE		AS ABOVE	AS ABOVE						AS ABOVE	AS ABOVE	AS ABOVE
C-54E-DO -1 thru -20	4	PRATT-WHITNEY R-2000-11 2 SPEED HAMILTON STD. 13" DIA. -3 BL. F.F., HYDROMATIC	T 1350/ S L W NONE M {1350/ 1000 1100/ 16000 C 1000/ 17000	S 117' 6" L 92' 10" H 27' 6" T 24' 8" W 1460 Sq.	B 39400 C 73000 W 87000* M 73000	5	OUTRD.-WINGS 2 x 500 OUTRD.-WINGS 2 x 420 INRD. W (AUX.) 2 x 480 INRD. W (AUX.) 2 x 350 (138) (3520)	AS ABOVE	32500	PERSONNEL 44	11000	SCR-211 SCR-269 SCR-274 SCR-287 SCR-515 SCR-522 SCR-578 SCR-595 SCR-695 SCR-718 RC-32 RC-36 RC-43 RC-103 RC-198 RC-198 MK-26 AN/AIC-3 AN/APN-4 AN/APN-9 AN/ARA-10 AN/ARC-8 AN/ARC-9 AN/APN-5 AN/APN-7 AN/ARN-11 AN/ASA-1 AN/ASA-3 RC-1023	REFER TO PAGE 4 FOR "FOREWORD" REFER TO PAGE 3 FOR SECURITY CLASSIFICATION REFER TO PAGE 5 FOR DEFINITIONS. REFER TO T.O. LISTED FOR DETAILED PLANNING.			
C-54D-DO -1 thru -15			AS ABOVE	AS ABOVE	AS ABOVE		AS ABOVE	AS ABOVE						AS ABOVE	AS ABOVE	AS ABOVE
C-54G (DO+DC) -1 thru -15	4	PRATT-WHITNEY R-2000-9 2 SPEED HAMILTON STD. 13" DIA. -3 BL. F.F., HYDROMATIC	T 1450/ S L W NONE M {1450/ 1000 1100/ 16000 C 1000/ 17000	S 117' 6" L 92' 10" H 27' 6" T 24' 8" W 1460 Sq.	B 40000 C 73000 W 87000* M 73000	6	AS ABOVE	AS ABOVE	32500	PERSONNEL 44	11000	SCR-211 SCR-269 SCR-274 SCR-287 SCR-515 SCR-522 SCR-578 SCR-595 SCR-695 SCR-718 RC-32 RC-36 RC-43 RC-103 RC-198 RC-198 MK-26 AN/AIC-3 AN/APN-4 AN/APN-9 AN/ARA-10 AN/ARC-8 AN/ARC-9 AN/APN-5 AN/APN-7 AN/ARN-11 AN/ASA-1 AN/ASA-3 RC-1023	REFER TO PAGE 4 FOR "FOREWORD" REFER TO PAGE 3 FOR SECURITY CLASSIFICATION REFER TO PAGE 5 FOR DEFINITIONS. REFER TO T.O. LISTED FOR DETAILED PLANNING.			
C-54J-DO -1			AS ABOVE	AS ABOVE	AS ABOVE		AS ABOVE	AS ABOVE						AS ABOVE	AS ABOVE	AS ABOVE

MODEL & BLOCK-NO.	TAKE OFF & LANDING HARD SURFACE-NO WIND						HIGH SPEED & CLIMB CLEAN AIRPLANE AT NORMAL COMBAT WEIGHT						RANGE AND ENDURANCE STATUTE AIR MILES-NO WIND-NO ALLOWANCE FOR RESERVE										REMARKS
	GROSS WEIGHT	TO CLEAR 50'		GROUND RUN		STD. ALT.	WAR EMERG.	MIL. POWER		MAX. CONTIN. POWER		LOADING			MAX. CONTIN.		LONG RANGE CRUISE						
		LB	T.O. DIST.	LAND DIST.	T.O. DIST.			LAND DIST.	FT.	HIGH SPEED	RATE OF CLIMB	HIGH SPEED	RATE OF CLIMB	TAKE OFF WEIGHT	BOMBS CARGO	TOTAL FUEL	at 10000 FT.	at 5000 FT.	at 10000 FT.	at 15000 FT.	at 20000 FT.		
C-54A-DO -1 thru -3	40000	1900	2000	80	1300	15000	260	480	26.7	82000	3920	1850	7.0	4100	22.5	4075	21.1	4000	19.5	3800	18.3	(c) FIRST 5.0 HRS. OF FLIGHT INCLUDING CLIMB, ARE AT 15000 FT. ALT.	
C-54A-DC -1 thru -15	50000	2300	2800	95	1600	10000	255	625	14.8	65000	8000	1475	5.5	2725	14.5	2750	13.7	2700	12.9	2475	11.7		
C-54B-DO -1 thru -20	60000	3200	3200	110	1800	73000	270	685	22.7	59000	1820	900	3.5	1900	10.2	2050	10.8	1950	9.9	1750	8.5	(d) FIRST 7.1 HRS. OF FLIGHT INCLUDING CLIMB, ARE AT 15000 FT. ALT.	
C-54B-DC -1	65000	4100	2400	110	2400	5000	255	700	21.5	50000	14000	975	4.0	1675	8.9	1700	8.3	1650	7.5	1490	6.7		
C-54E-DO -1 thru -20	40000	2400	2400	80	1400	20000	260	480	26.7	82000	3920	1850	7.0	4100	22.5	4075	21.1	4000	19.5	3800	18.3	(e) FIRST 3.4 HRS. OF FLIGHT INCLUDING CLIMB, ARE AT 15000 FT. ALT.	
C-54D-DC** -1 thru -15	50000	2000	2900	90	1800	15000	255	625	14.8	65000	8000	1475	5.5	2725	14.5	2750	13.7	2700	12.9	2475	11.7		
C-54G (DO+DC) -1 thru -15	60000	3400	3500	110	2200	10000	270	685	22.7	59000	1820	900	3.5	1900	10.2	2050	10.8	1950	9.9	1750	8.5	** RANGE AND ENDURANCE FOR C-54D WILL BE SLIGHTLY GREATER THAN SHOWN FOR C-54E DUE TO INCREASE OF FUEL LOAD.	
C-54J-DO -1	65000	4300	2500	110	2500	5000	255	700	21.5	50000	14000	975	4.0	1675	8.9	1700	8.3	1650	7.5	1490	6.7		

NOTES:

(A) SCR-211 FREQUENCY METER	WR-26 RADIO COMPASS	AN/ARC-3 INTERPHONE
SCR-269 RADIO COMPASS	AN/ARC-4 LOGAN	AN/ARC-5 COMMAND SET
SCR-274 COMMAND SET	AN/ARC-6 COMMAND SET	AN/ARC-7 COMMAND SET
SCR-287 LIAISON SET	AN/ARC-8 LIAISON SET	AN/ARC-9 SET
SCR-515 IDENTIFICATION EQUIP.	AN/ARC-10 PANEL CONTROL SYSTEM	AN/ARC-11 COMPASS
SCR-522 COMMAND SET	AN/ASA-1 STATIC DISCHARGE	AN/ASA-2 STATIC DISCHARGE
SCR-578 EMERGENCY TRANSMITTER	AN/ASA-3 STATIC DISCHARGE	AN/ASA-4 HARKER RAJON
SCR-595 IFF	AN/ASA-5 HARKER RAJON	RC-1023 HARKER RAJON
SCR-695 IFF		
SCR-718 HIGH ALT. ALTIMETER		
RC-32 FILTER EQUIPMENT		
RC-36 INTERPHONE		
RC-43 HARKER RAJON		
RC-103 LOCALIZER		
RC-198 FILTER EQUIPMENT		

RED FIGURES ARE PRELIMINARY: SUBJECT TO REVISION AFTER FLIGHT CHECK.

C-54 "SKYMASTER"

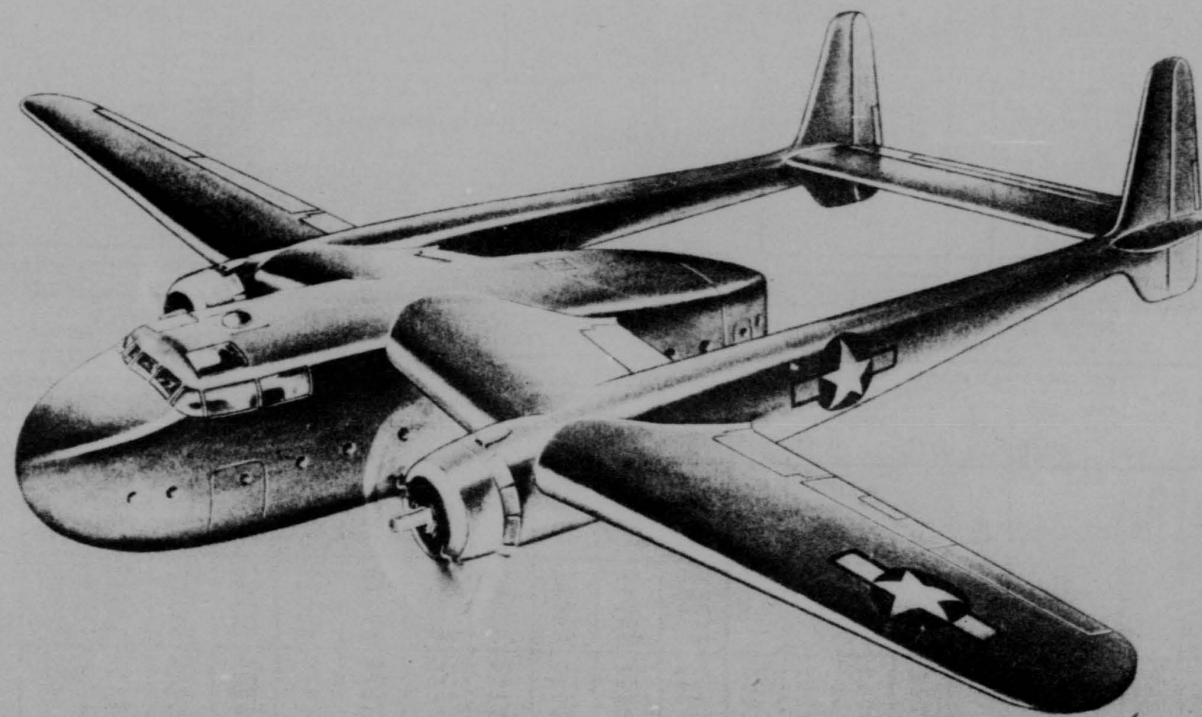
MANUFACTURED BY DOUGLAS (SANTA MONICA) "DO" & (CHICAGO) "DC"

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PAGE 30
AS OF:
29 JUNE 1945



PACKET
FAIRCHILD C-82

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TACTICAL PLANNING CHARACTERISTICS & PERFORMANCE CHART

PAGE 31
AS OF 1 JANUARY 1945


MODEL & BLOCK-NO.	ENGINE & PROP.		SIZE	WEIGHT		COMBAT CREW	FUEL & OIL		CARGO OR PASSENGERS			RADIO	REMARKS & REFERENCE		
	NUMBER	ENGINE MFR. MODEL SUPERCHARGER PROP. MFR. TYPE	B.H.P./ALT.	S-SPAN L'-LENGTH H'-HEIGHT T'-TREAD W'-WING AREA	B-BASIC C-COMBAT W-WAR MAX. M-MAX. LAND		NOTES	FUEL TANKAGE		STATION CAPACITY	MAX. LOAD	STATION PLACES		MAX. LOAD	TYPICAL MODELS CARRIED (SEE 4)
			T-TAKE OFF W-WAR EMERG M-MILITARY C-CONTINUOUS		FUEL TYPE OR LOCATION (MAX. OIL)			OIL NO. AND CAPACITY (MAX. FUEL)							
C-69-LD -1 thru -5 C-69C-LD-1	4	WRIGHT R-3350-35 SINGLE SPEED HAMILTON STD. 15" 2" DIA.-3 BL. F.F., HYDROMATIC	T 2200/3 L W 4000 M 2200/5000 C 2000/5000	S 122' 0" L 35' 2" H 23' 6" T 28' 0" W 153' 5 1/2"	B 50500 C 42000 W 101000 M 82000		90785-WINGS 2 x 1500 1935-WINGS 2 x 820 (200)	21000	21000	PERSONNEL PASSENGERS 50 RADIO 2400	14000	14000	APC-22, APC-23, APC-24, APC-25, APC-26, APC-27, APC-28, APC-29, APC-30, APC-31, APC-32, APC-33, APC-34, APC-35, APC-36, APC-37, APC-38, APC-39, APC-40, APC-41, APC-42, APC-43, APC-44, APC-45, APC-46, APC-47, APC-48, APC-49, APC-50, APC-51, APC-52, APC-53, APC-54, APC-55, APC-56, APC-57, APC-58, APC-59, APC-60, APC-61, APC-62, APC-63, APC-64, APC-65, APC-66, APC-67, APC-68, APC-69, APC-70, APC-71, APC-72, APC-73, APC-74, APC-75, APC-76, APC-77, APC-78, APC-79, APC-80, APC-81, APC-82, APC-83, APC-84, APC-85, APC-86, APC-87, APC-88, APC-89, APC-90, APC-91, APC-92, APC-93, APC-94, APC-95, APC-96, APC-97, APC-98, APC-99, APC-100	REFER TO PAGE 4 FOR "FOREWORD" REFER TO PAGE 3 FOR SECURITY CLASSIFICATION REFER TO PAGE 5 FOR DEFINITIONS REFER TO T.O. LISTED FOR DETAILED PLANNING.	
C-82 {FA NT	2	PRATT-WHITNEY R-2800-22C INTEGRAL SUPERCH. HAMILTON STD. 15" 2" DIA.-3 BL. F.F., HYDROMATIC	T 2100/3 L W 4000 M 1600/15000 C 1700/7000 1450/14500	S 106' 1" L 35' 10" H 26' 6" T 28' 0" W 140' 5 1/2"	B 28500 C 42000 W 72000 M 42000		90785-WINGS 2 x 785 1935-WINGS 2 x 775 425-WINGS 2 x 364 (160)	19400	19400	PERSONNEL PASSENGERS 42 LITTERS ATTENDANTS 12	10000	10000	APC-22, APC-23, APC-24, APC-25, APC-26, APC-27, APC-28, APC-29, APC-30, APC-31, APC-32, APC-33, APC-34, APC-35, APC-36, APC-37, APC-38, APC-39, APC-40, APC-41, APC-42, APC-43, APC-44, APC-45, APC-46, APC-47, APC-48, APC-49, APC-50, APC-51, APC-52, APC-53, APC-54, APC-55, APC-56, APC-57, APC-58, APC-59, APC-60, APC-61, APC-62, APC-63, APC-64, APC-65, APC-66, APC-67, APC-68, APC-69, APC-70, APC-71, APC-72, APC-73, APC-74, APC-75, APC-76, APC-77, APC-78, APC-79, APC-80, APC-81, APC-82, APC-83, APC-84, APC-85, APC-86, APC-87, APC-88, APC-89, APC-90, APC-91, APC-92, APC-93, APC-94, APC-95, APC-96, APC-97, APC-98, APC-99, APC-100		
C-87-CF	4	PRATT-WHITNEY R-1830-43 or -55 TURBO HAMILTON STD. 11" 7" DIA.-3 BL. F.F., HYDROMATIC	T 1200/2 L W 4000 M 1200/25500 C 1150/27500	S 110' 3" L 36' 4" H 18' 0" T 25' 8" W 109 1/2"	B 33400 C 50000 W 71200 M 50000		1935-WINGS 12 x 284 90785-WINGS 8 x 450 (150)	11000	12000	PERSONNEL PASSENGERS 25 RADIO 600	9000	9000	APC-22, APC-23, APC-24, APC-25, APC-26, APC-27, APC-28, APC-29, APC-30, APC-31, APC-32, APC-33, APC-34, APC-35, APC-36, APC-37, APC-38, APC-39, APC-40, APC-41, APC-42, APC-43, APC-44, APC-45, APC-46, APC-47, APC-48, APC-49, APC-50, APC-51, APC-52, APC-53, APC-54, APC-55, APC-56, APC-57, APC-58, APC-59, APC-60, APC-61, APC-62, APC-63, APC-64, APC-65, APC-66, APC-67, APC-68, APC-69, APC-70, APC-71, APC-72, APC-73, APC-74, APC-75, APC-76, APC-77, APC-78, APC-79, APC-80, APC-81, APC-82, APC-83, APC-84, APC-85, APC-86, APC-87, APC-88, APC-89, APC-90, APC-91, APC-92, APC-93, APC-94, APC-95, APC-96, APC-97, APC-98, APC-99, APC-100		

MODEL & BLOCK-NO.	TAKE OFF & LANDING HARD SURFACE-NO WIND					HIGH SPEED & CLIMB CLEAN AIRPLANE AT NORMAL COMBAT WEIGHT										RANGE AND ENDURANCE STATUTE AIR MILES-NO WIND-NO ALLOWANCE FOR RESERVE										REMARKS	
	GROSS WEIGHT	TO CLEAR 50'		LANDING SPEED	GROUND RUN		STD. ALT.	WAR EMERG.		MIL. POWER		MAX. CONTIN. POWER		LOADING		MAX. CONTIN.		LONG RANGE CRUISE									
		TO DIST.	LAND DIST.		TO DIST.	LAND DIST.		WEIGHT	CLIMB SPEED	RATE OF CLIMB	CLIMB SPEED	RATE OF CLIMB	CLIMB SPEED	RATE OF CLIMB	TIME TO CLIMB	TAKE OFF WEIGHT	BOMBS CARGO	TOTAL FUEL	at 10000FT.	at 5000FT.	at 10000FT.	at 15000FT.	at 20000FT.				
LB	FT.	FT.	MPH	FT.	FT.	LB	FT.	MPH	FT./MIN.	MPH	FT./MIN.	MPH	FT./MIN.	MIN.	LB	LB	U.S. GAL.	RANGE	ENDUR.	RANGE	ENDUR.	RANGE	ENDUR.	RANGE	ENDUR.	RANGE	ENDUR.
C-69-LD -1 thru -5 C-69C-LD-1	55000 70000 75000 80000 93000	- 2300 2700 3100 4500	2400 2900 3000 -	84 91 92 -	1100 1300 1500 2100 2000	20000 15000 10000 5000 3 L	1100 1200 1400	- - - - -	318 322 326 327 331	- - - 1800 1800	308 317 320 324 324	225 225 225 1700 1700	20.0 19.3 17.1 8.1 8.0	42000 42000 42000	4000 4000 4000	1415 1415 1415	2275 2275 2275	7.5 7.4 7.4	4025 3900 3775	18.9 17.8 16.7	4600 4375 4150	17.9 16.7 15.3	5125 4875 4625	16.1 14.9 13.2	3000 2725 2450	10.4 9.0 7.3	(c) A.L. MIXTURE NECESSARY FOR ENTIRE FLIGHT. (d) FIRST 5.6 HRS. AT 15,000 FT. WITH A.L. MIXTURE; BALANCE AT 20000 FT. WITH A.L. MIXTURE.
C-82 {FA NT	30000 35000 42000	- 1800 30000	1800 2000 2300	83 85 91	1100 1200 1400	20000 15000 10000 5000 3 L	1100 1200 1400	- - - - -	222 228 232 221 212	425 425 425 1150 1410	24.7 14.2 7.1 4.5 6.0	42000 42000	4000 5000	1900 1070	1150 650	5.4 3.2	2800 1400	18.4 9.5	2500 1350	15.2 8.3	2375 1100	13.9 8.1	1775 875	8.0 3.3			
C-87-CF	35000 40000 45000 50000 56000 62000	- 2300 2100 2900 3800 5000	2700 2700 3200 4300 -	87 90 95 100 105 -	2000 2200 2400 2600 3300 -	25000 20000 15000 10000 5000	2000 2200 2400 2600 3300 -	- - - - -	283 280 286 285	1050 1100 1200 1200	300 280 275 249	26.5 20.9 15.3 9.0 4.2	53500 54000 62000	4000 2500 4500	2814 2814 2814	- - -	3175 3050 2900	19.5 18.5 17.0	3100 3025 2775	17.4 16.4 15.7	3050 2750 2700	15.5 14.9 13.7	3000 2875 2600	14.5 14.0 12.3	C-82 FLIGHT TEST REQUESTED		


NOTES:
RED FIGURES ARE PRELIMINARY;
SUBJECT TO REVISION AFTER
FLIGHT CHECK.



C-69
"CONSTELLATION"
LOCKHEED (BOEING) "60"



C-82
"PACKET"
FAIRCCHILD (NAGERSTON) "FA" & NORTH AMERICAN (DALLAS) "NT"



C-87
"LIBERATOR EXPRESS"
CONSOLIDATED (FT. WORTH) "CF"

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TACTICAL PLANNING CHARACTERISTICS & PERFORMANCE CHART


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MODEL & BLOCK-NO.	ENGINE & PROP.		SIZE		WEIGHT		COMBAT CREW	FUEL & OIL		ARMAMENT			BOMBS		RADIO	REMARKS & REFERENCE	
	NUMBER	ENGINE MFR. MODEL SUPERCHARGER PROP. MFR. TYPE	B.H.P./ALT. T - TAKE OFF W - WAR EMERG. M - MILITARY C - CONTINUOUS	S-SPAN L-LENGTH H-HEIGHT T-TREAD W-WING AREA	B-BASIC C-COMBAT W-WAR MAX. M-MAX. LAND	NOTES		FUEL TANKAGE		(NO. ROCKETS-SIZE-INSTALLATION)			NO. AND SIZE		MAX. LOAD		TYPICAL MODELS CARRIED (SEE A)
								TYPE OR LOCATION ALSO (MAX. OIL)	NO AND CAPACITY ALSO (MAX. FUEL)	NO. GUNS AND SIZE	RDS. PER GUN	LOCATION AND TYPE	INTERNAL	EXTERNAL			
P-38G-L0 -1 thru -15	2	ALLISON V-1710-51 & -55 TURBO CURTISS 11"6"DIAL-3 BL. F.F., ELECTRIC	T 1225/5 L W NONE M 1150/27000 C 1100/24000	S 52' 0" L 37' 10" H 12' 10" T 16' 8" W 328 Sq. Ft.	B 19500 C 15800 W - M -		MAIN - WINGS 2 x 90 RES. - WINGS 2 x 60 DROPP. - WINGS 2 x 75 or 2 x 150 lb (26) (500)	4-.50 1-20mm	500 150	NOSE - FIXED NOSE-HI CANNON	NONE	2-1000 2- 500 2- 325 2- 250 2- 100	2000	SCR-274 SCR-522 SCR-695 HW-26 AN/APS-13 AN/ARC-3 BC-1206	<p>P-38G TECH. ORDER 01-75F-1 (REV. 30 SEPT. 1944) P-38H, J&L TECH. ORDER 01-75-1 (REV. 25 APRIL 1945)</p> <p>(a) LIMITED TO 1150 H.P. BECAUSE OF INADEQUATE COOLING. (b) LAST (200) P-38G-10'S HAVE MAX. FUEL AS LISTED FOR P-38H MODELS. (c) LAST (200) P-38G-10'S HAVE BOMB LOAD AS LISTED FOR P-38H MODELS. (d) LIMITED TO 1240 H.P. BECAUSE OF INADEQUATE COOLING. P-38J'S HAVE CORE TYPE COOLER GIVING INCREASED ENGINE RATINGS AS LISTED. (e) ROCKETS INSTALLED ON P-38L-5 MODELS ONLY! CLUSTER OF 3 LOADED ROCKET TUBES (KITS ISSUED FOR EARLY MODELS) UNDER EACH WING, REDUCES TOP SPEED 20 MPH. AT 15000 FT.</p>		
P-38H-L0 -1 & -5	2	ALLISON V-1710-49 & 91 TURBO CURTISS 11"6"DIAL-3 BL. F.F., ELECTRIC	T 1425/5 L W NONE M 1240/25000 C 1100/24000	S L AS ABOVE L AS ABOVE H AS ABOVE T AS ABOVE W AS ABOVE	B 19700 C 16300 W - M -		MAIN - WINGS 2 x 90 RES. - WINGS 2 x 60 DROPP. - WINGS 2 x 75 or 2 x 150 lb (26) (900)	4-.50 1-20mm	500 150	NOSE - FIXED NOSE-AN - WDC	NONE	2-1000 2-1000 2- 500 2- 325 2- 250 2- 100	3200				
P-38J-L0 -5 thru -25	2	AS ABOVE	T 1425/5 L W 1600/26500 M 1425/26100 C 1100/32500	S L AS ABOVE L AS ABOVE H AS ABOVE T AS ABOVE W AS ABOVE	B 19100 C 17500 W - M -		MAIN - WINGS 2 x 90 RES. - WINGS 2 x 60 L.E. - WINGS 2 x 55 DROPP. - WINGS 2 x 75 or 2 x 150 lb (26) (1010)	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE				
P-38L-L0 -1 & -5	2	ALLISON V-1710-111 & -112 TURBO CURTISS 11"6"DIAL-3 BL. F.F., ELECTRIC	T 1425/5 L W 1500/28700 M 1425/29000 C 1100/33400	S L AS ABOVE L AS ABOVE H AS ABOVE T AS ABOVE W AS ABOVE	B AS ABOVE C AS ABOVE W AS ABOVE M AS ABOVE		AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE				
P-38L-VN -5			T W M C	S L H T W	B C W M												

MODEL & BLOCK-NO.	TAKE OFF & LANDING HARD SURFACE - NO WIND					HIGH SPEED & CLIMB CLEAN AIRPLANE AT NORMAL COMBAT WEIGHT										RANGE AND ENDURANCE STATUTE AIR MILES - NO WIND - NO ALLOWANCE FOR RESERVE										REMARKS			
	GROSS WEIGHT LB.	TO CLEAR 50'		GROUND RUN		WEIGHT LB.	STO. ALT. FT.	WAR EMERG.		MIL. POWER		MAX. CONTIN. POWER		LOADING		MAX. CONTINUOUS POWER				MAX. CRUISE POWER									
		T.O. DIST. FT.	LAND DIST. FT.	LANDING SPEED MPH	T.O. DIST. FT.			LAND DIST. FT.	HIGH SPEED MPH	RATE OF CLIMB FT. MIN.	HIGH SPEED MPH	RATE OF CLIMB FT. MIN.	HIGH SPEED MPH	RATE OF CLIMB FT. MIN.	TIME TO CLIMB MIN.	TAKE OFF WEIGHT LB.	BOMBS CARGO LB.	TOTAL FUEL U.S. GAL.	at 10000 FT.		at 25000 FT.		at 10000 FT.		at 25000 FT.				
P-38G-L0 -1 thru -15	14000 16000 18000 20000	- 2400 3200 4100	2800 3100 - -	85 90 - -	1500 1700 2000 2500	15800	30000 25000 20000 15000 10000 5000	400 390 375 360 345	1700 2300 2500 2900 2800	390 375 360 346 332	1500 1900 2200 2400 2000	11.0 8.5 6.0 4.0 2.0	19900 17800 15800 15800 17400	NONE NONE 300 300 2000	900 500 300 300 300	1000 700 340 330 310	3.3 2.2 1.0 1.0 1.0	1100 750 350 320 310	3.4 2.2 1.0 1.0 1.0	- - 500 550 500	1.780 1200 570 510 480	6.2 4.0 1.8 1.9 1.6	2200 1670 650 760 740	10.8 7.9 2.9 3.5 3.5	<p>P-38J & L MODELS HAVE INCREASED DRAG DUE TO EXTERNAL CORE TYPE COOLERS.</p> <p>WITH ONE PROP. FEATHERED, LOSS IN LONG RANGE (CLEAN AIRPLANE) IS APPROX. 15% FOR P-38G; APPROX. 25% FOR P-38L; LOSS IN MAX. CONT. POWER RANGE IS APPROX. 25% FOR P-38G; APPROX. 30% FOR P-38L.</p> <p>LOSS IN SPEED FOR P-38L AT MILITARY POWER, CAUSED BY INSTALLATION OF (10) ZERO LENGTH ROCKET RAILS, IS 17 MPH AT 10,000'. SPEED LOSS WITH (10) 5" AR OR HYAR IS 21 MPH AT 10,000' AND 24 MPH AT 25,000'.</p>				
P-38H-L0 -1 & -5	14000 16000 18000 20000	- 2100 2900 -	2000 2200 - -	88 95 - -	1400 1600 - -	16300	30000 25000 20000 15000 10000 5000	402 387 372 360 345	2500 2850 3200 3400 3500	384 370 353 336 318	11.0 8.0 6.5 5.0 3.0	20200 18300 16300 18300 19500	NONE NONE 300 300 3200	900 500 300 300 300	1180 920 350 320 300	4.3 2.1 1.2 1.2 1.2	1150 690 370 320 300	3.5 2.0 1.2 1.2 1.2	1800 1300 500 530 500	6.5 4.3 1.7 1.9 1.8	1700 1160 570 460 450	5.7 3.8 1.8 1.5 1.5	2200 1560 850 750 700	10.2 7.2 4.2 3.6 3.4					
P-38J-L0 -5 thru -25	14000 16000 18000 20000 21000	- 2000 2800 3500 -	2000 2200 - -	102 109 - -	1200 1400 - -	17500	30000 25000 20000 15000 10000 5000	405 396 403 390 377	1625 2425 2925 3275 3525	395 398 385 373 361	1700 2400 2650 2900 3100	12.0 9.0 7.0 5.0 4.0	21800 20200 17500 19500 20700	NONE NONE NONE 2000 3200	1010 740 410 410 410	1050 820 440 430 400	3.8 2.8 1.4 1.4 1.4	1070 990 470 420 410	3.8 2.8 1.4 1.4 1.4	1820 1360 800 710 680	6.9 4.7 2.8 2.7 2.6	1880 1460 840 730 720	5.8 4.9 2.8 2.4 2.4	2260 1510 1170 970 900		12.1 10.8 6.0 4.8 4.8			
P-38L-L0 -1 & -5	14500 16000 18000 20000 22000	- 2000 2800 3700 -	2000 2200 - -	103 109 - -	1200 1400 - -	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE		AS ABOVE	AS ABOVE	AS ABOVE	
P-38L-VN -5	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE		AS ABOVE	AS ABOVE	AS ABOVE	

NOTES: (A) SCR-274 COMMAND SET
SCR-522 COMMAND SET
SCR-695 IFF
HW-26 RADIO COMPASS
AN/APS-13 TAIL WARNING RADAR
AN/ARC-3 COMMAND SET
BC-1206 BEACON RECEIVER

RED FIGURES ARE PRELIMINARY; SUBJECT TO REVISION AFTER FLIGHT CHECK.
* FIRST 5 MINUTES WITH MILITARY POWER.
† TIME TO CLIMB FROM S.L. BASED ON MILITARY POWER.



P-38 "LIGHTNING"

MANUFACTURED BY LOCKHEED (BOBBANK) "LO" & VULTEE (NASHVILLE) "VN"

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TACTICAL PLANNING CHARACTERISTICS & PERFORMANCE CHART																		
MODEL & BLOCK-NO.	ENGINE & PROP.			SIZE		WEIGHT		COMBAT CREW	FUEL & OIL		ARMAMENT			BOMBS			RADIO	REMARKS & REFERENCE
	NUMBER	ENGINE MFR. MODEL SUPERCHARGER PROP MFR. TYPE	B.H.P./ALT. T - TAKE OFF W - WAR EMERG. M - MILITARY C - CONTINUOUS	S-SPAN L-LENGTH H-HEIGHT T-TREAD W-WING AREA	B-BASIC C-COMBAT W-WAR MAX. M-MAX. LAND	NOTES	FUEL TANKAGE		(NO. ROCKETS-SIZE-INSTALLATION)			NO. AND SIZE			TYPICAL MODELS CARRIED (SEE A)			
							TYPE OR LOCATION ALSO (MAX. OIL)		NO. AND CAPACITY ALSO (MAX. FUEL)	NO. GUNS AND SIZE	RDS PER GUN	LOCATION AND TYPE	INTERNAL	EXTERNAL		MAX. LOAD		
P-39N-BE -0, -1 & -5	1	ALLISON X-1710-85 SINGLE SPEED AERO PRODUCTS 11'7" DIA. - 3 BL. CONST. SPD. - HYDRO.	T 1200/3 L W 1430/3400 M 1125/16400 C 1000/14800	S 34' 0" L 30' 2" H 12' 5" T 11' 4" W 213 Sq. Ft.	B 6400 C 7700		WING - CELLS HELLY - SHOP. 1 x 156 1 x 175 (14)	12 - 120 1 x 750	8 (4.5") M-10 ROCKETS IN CLUSTERS OF 3 PRODUCED IN SERVICE KITS FOR SOME MODELS	4-.30 2-.50 1-37mm	300 200 30	WINGS - FIXED NOSE - FIXED PROD. - TYPE W4	NONE	1-500 1-375 1-250 1-100	500	SCR-274 SCR-522 SCR-535 SCR-695	REFER TO PAGE 4 FOR "FOREWORD" REFER TO PAGE 3 FOR SECURITY CLASSIFICATION REFER TO PAGE 5 FOR DEFINITIONS. REFER TO T.O. LISTED FOR DETAILED PLANNING. P-39N SERIES - TECH. ORDER 01-110FM-11REV. 25 OCT. 1944 P-39Q SERIES - TECH. ORDER 01-110FM-1120 MARCH 1944 (a) P-39Q-30 HAS PROP. DIA. OF 11' 0". (b) P-39Q-20, -25 & -30 DO NOT HAVE WING GUNS.	
P-39Q-BE -1 thru -30	1	AS ABOVE	AS ABOVE	AS ABOVE	B 6400 C 7800		AS ABOVE	AS ABOVE	8 (4.5") M-10 ROCKETS IN CLUSTERS OF 3 PRODUCED IN SERVICE KITS FOR SOME MODELS	2-.50 2-.50 1-37mm	300 200 30	WINGS - FIXED NOSE - FIXED PROP. - TYPE W4	AS ABOVE	AS ABOVE				

MODEL & BLOCK-NO.	TAKE OFF & LANDING HARD SURFACE - NO WIND					HIGH SPEED & CLIMB CLEAN AIRPLANE AT NORMAL COMBAT WEIGHT										RANGE AND ENDURANCE STATUTE AIR MILES - NO WIND - NO ALLOWANCE FOR RESERVE										REMARKS	
	TO CLEAR 50'		GROUND RUN			WEIGHT	STD. ALT.	WAR EMERG.		MIL. POWER		MAX. CONTIN. POWER		LOADING			MAX. CONTINUOUS POWER				MAX. CRUISE POWER				LONG RANGE		
	GROSS WEIGHT	T.O. DIST.	LAND DIST.	LANDING SPEED	T.O. DIST.			LAND DIST.	HIGH SPEED	RATE OF CLIMB	HIGH SPEED	RATE OF CLIMB	HIGH SPEED	RATE OF CLIMB	TIME TO CLIMB	TAKE OFF WEIGHT	BOMBS	TOTAL FUEL	at 10,000 FT.		at 25,000 FT.		at 10,000 FT.		at 25,000 FT.		RANGE
P-39N-BE -0, -1 & -5	5800 7500 8000 8500 9000	- 2100 3000 3500 4000	- - - - -	82 - - - -	1500 - 1900 2200 2800	1200 - - - -	25000 20000 15000 10000 5000	NO DATA	368 378 387 390	1175 1825 2450 2600	350 365 395 420	11.4 8.1 5.8 3.8 1.9	1900 800 4200 7700 8200	NONE NONE NONE 450# 500	295 275 195 120 120	560 920 370 270 220	2.0 1.9 1.4 0.8 0.8	960 900 855 480 350	3.5 3.3 2.5 1.4 1.3	- - - 570 270	2.5 - - 1.4 1.5	1000 1050 760 570 430	5.5 5.2 3.9 2.8 2.1				
P-39Q-BE -1 thru -30	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	7800	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE

NOTES:
(A) SCR-274 COMMAND SET
SCR-522 COMMAND SET
SCR-535 IFF
SCR-695 IFF

RED FIGURES ARE PRELIMINARY: SUBJECT TO REVISION AFTER FLIGHT CHECK.
* TIME TO CLIMB FROM S.L. BASED ON MILITARY POWER.



P-39
"AIRACOBRA"

MANUFACTURED BY BELL (BUFFALO) "BE"

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TACTICAL PLANNING CHARACTERISTICS & PERFORMANCE CHART

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AS OF 23 JUNE 1945

MODEL & BLOCK-NO.	ENGINE & PROP.			SIZE		WEIGHT		COMBAT CREW	FUEL & OIL		ARMAMENT			BOMBS		RADIO	REMARKS & REFERENCE
	NUMBER	ENGINE MFR. MODEL SUPERCHARGER PROP MFR. TYPE	B.H.P./ALT.	S-SPAN L-LENGTH H-HEIGHT T-TREAD W-WING AREA	B-BASIC C-COMBAT W-WAR MAX M-MAX LAND	NOTES	FUEL TANKAGE		NO ROCKETS-SIZE-INSTALLATION			NO AND SIZE		MAX LOAD	TYPICAL MODELS CARRIED (SEE A)		
							TYPE OR LOCATION		NO AND CAPACITY	NO GUNS AND SIZE	RDS PER GUN	LOCATION AND TYPE	INTERNAL			EXTERNAL	
P-40N-CU -1	1	ALLISON V-1710-B1 SINGLE SPEED CURTISS 1170D14-3 HL CONST. SPD., ELECTRIC	T 1200 S L W 1440/10000 M 1125/17000 C 1000/14400	S 37' 4" L 33' 4" H 12' 4" T 8' 2" W 234 Sq. Ft.	B 6400 C 7700 W - M -		REAR - WING 1 x 54 WING 1 x 48 DROPP. BELLY 1 x 52.75 150 gal. (18)	NO AND CAPACITY 4-50 (292)	10(5") ROCKETS OR 6 (4.5") M10 ROCKETS PROCURED IN SERVICE KITS FOR SOME MODELS	4-50	200	WINGS - FIXED	NONE	1-500 1-325 1-200 3-100 4-20	SCR-274 SCR-283 SCR-522 SCR-695 RM-26	REFER TO PAGE 4 FOR "FOREWORD" REFER TO PAGE 3 FOR SECURITY CLASSIFICATION REFER TO PAGE 5 FOR DEFINITIONS REFER TO T.O. LISTED FOR DETAILED PLANNING	
P-40N-CU -5 thru -40	1	ALLISON V-1710-B1, 49, 115 D SINGLE SPEED CURTISS 1170D14-3 BL CONST. SPD., ELECTRIC	T AS ABOVE W AS ABOVE M AS ABOVE C AS ABOVE	S AS ABOVE L AS ABOVE H AS ABOVE T AS ABOVE W AS ABOVE	B 6700 C 8400 W - M -		REAR - WING 1 x 54 FRONT - WING 1 x 37 FUSELAGE 1 x 70 DROPP. - BELLY 1 x 75.150 DROPP. - WINGS 2 x 225 (16)	NO AND CAPACITY 6-50 (211)	10(5") ROCKETS OR 6 (4.5") M10 ROCKETS PROCURED IN SERVICE KITS FOR SOME MODELS	6-50	280	WINGS - FIXED	NONE	3-500 3-325 3-250 3-100 4-20			

MODEL & BLOCK-NO.	TAKE OFF & LANDING HARD SURFACE-NO WIND					HIGH SPEED & CLIMB CLEAN AIRPLANE AT NORMAL COMBAT WEIGHT										RANGE AND ENDURANCE STATUTE AIR MILES-NO WIND- NO ALLOWANCE FOR RESERVE										REMARKS
	GROSS WEIGHT	TO CLEAR 50'		GROUND RUN		STD. ALT.	WAR EMERG.	MIL. POWER		MAX. CONTIN. POWER		LOADING			MAX. CONTINUOUS POWER		MAX. CRUISE POWER		LONG RANGE							
		LB	T.O. DIST.	LAND DIST.	LANDING SPEED			T.O. DIST.	LAND DIST.	WEIGHT	HIGH SPEED	RATE OF CLIMB	HIGH SPEED	RATE OF CLIMB	TIME TO CLIMB	TAKE OFF WEIGHT	BOMBS -CARGO-	TOTAL FUEL	at 10000 FT.	at 25000 FT.	at 10000 FT.	at 25000 FT.	at 10000 FT.	at 25000 FT.		
P-40N-CU -1	7200 8000 8400 8800 9200	- 2700 3100 3400 4300	- 1700 1800 1900 -	82 97 100 -	1100 1400 1800 -	1200 1300 -	7700	NO DATA	332 346 348 331 313	1225 1850 2400 2525 2425	313 330 333 315 297	# 12.4 9.1 6.7 4.1 2.1	8850 8250 7725 8225	NONE NONE NONE 500	292 197 122 122	500 380 280 210	2.0 1.4 0.8 0.8	- 1.9 1.1 1.1	1050 760 430 420	4.4 3.2 1.7 1.4	NOV. CEILING OF AIRPLANE IN MAX. CRUISE POWER	1250 850 520 480	4.7 3.4 2.5 2.3	NOTE: PERFORMANCE SHOWN WITH EXTERNAL WING & BELLY RACKS.		
P-40N-CU -5 thru -40	7200 8400 9000 9400 9800 11500	- 3100 3600 4400 4900 -	1700 1900 2200 2700 3100 3500	82 100 100 -	1100 1800 1900 -	1300 -	8400	NO DATA	325 340 343 325 308	900 1500 2120 2225 2125	304 324 324 312 291	# 13.0 8.8 6.0 4.7 2.4	11400 9500 8900 8400 8900	NONE NONE NONE NONE 500	511 391 238 161 181	1290 670 470 320 300	4.4 2.7 1.6 1.4 1.1	- - 2.3 1.4 1.4	2250 1750 930 400 580	9.5 6.4 5.3 2.3 2.5	AS ABOVE	2800 1540 1080 750 -	4.1 3.0 2.5 1.5 -			

NOTES: (A) SCR-274 COMMAND SET
SCR-283 COMMAND SET
SCR-522 COMMAND SET
SCR-695 IFF
RM-26 RADIO COMPASS

RED FIGURES ARE PRELIMINARY: SUBJECT TO REVISION AFTER FLIGHT CHECK
* TIME TO CLIMB FROM S.L. BASED ON MILITARY POWER



P-40
"WARHAWK"

MANUFACTURED BY CURTISS (BUFFALO) "CU"

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TACTICAL PLANNING CHARACTERISTICS & PERFORMANCE CHART																	
MODEL & BLOCK-NO.	ENGINE & PROP.			SIZE		WEIGHT		COMBAT CREW	FUEL & OIL		ARMAMENT			BOMBS		RADIO	REMARKS & REFERENCE
	NUMBER	ENGINE MFR. MODEL SUPERCHARGER PROP MFR. TYPE	B.H.P./ALT. T-TAKE OFF W-WAR EMERG M-MILITARY C-CONTINUOUS	S-SPAN L-LENGTH H-HEIGHT T-TREAD W-WING AREA	B-BASIC C-COMBAT W-WAR MAX. M-MAX.LAND	NOTES	FUEL TANKAGE		NO. ROCKETS-SIZE-INSTALLATION			NO. AND SIZE		MAX. LOAD	TYPICAL MODELS CARRIED (SEE A)		
							TYPE OR LOCATION ALSO (MAX OIL)		NO. AND CAPACITY ALSO (MAX FUEL)	NO GUNS AND SIZE	RDS PER GUN	LOCATION AND TYPE	INTERNAL			EXTERNAL	
P-47C-RE -1 & -5	1	PRATT-WHITNEY R-2800-21, -59 TURBO	T 2000/5 L W 2300/27000 M 2000/27000 C 1625/29000	S 40' 9" L 36' 1" H 14' 7" T 15' 5" W 300 Sq. Ft.	B 10700 C 13500 W - M -	1	MAIN - FUSEL. 1 x 200 AUX. - FUSEL. 1 x 100 DROP - BELLY 1 x 75 or 1 x 110 DROP - WINGS 2 x 150 or 2 x 300	6 (5") ROCKETS WITH, OR 10 (5") ROCKETS WITHOUT BOMBS OR EXT. TANKS	5	267	WINGS - FIXED	NONE	2-1000 3- 500 3- 325 3- 250 3- 100	2-1000 1- 500 2500	SCR-274 SCR-522 SCR-535 SCR-595 AN/AP5-13 AN/ARA-8 AN/ARC-3 SC-1205 MN-26 KC-96	REFER TO PAGE 4 FOR "FOREWORD" REFER TO PAGE 3 FOR SECURITY CLASSIFICATION. REFER TO PAGE 5 FOR DEFINITIONS. REFER TO T.O. LISTED FOR DETAILED PLANNING. P-47C & D TECH. UNDER 01-658C-1 (REV. 10 AUG. 1945) P-47D(LATE) TECH. UNDER 01-658C-1A (REV. 10 AUG. 1945) P-47E TECH. UNDER 01-658D-1 (BEING REVISED) (a) P-47D-10 & SUBSEQUENT MODELS HAVE INCREASED CRITICAL ALTITUDES AS LISTED FOR LATER D'N. (b) P-47D-22 HAS HEIGHT OF 14'7". (c) ONLY EARLIEST MODELS CARRIED 200 GAL. BELLY TANK. (d) EARLY MODELS HAD BELLY SHACKLE ONLY, CARRYING (1) EXTERNAL BOMB OR FUEL TANK. (e) HAMILTON STD. HYDRAULIC PMP. INSTALLED IN P-47D-25-RE & -27 ONLY; OTHERS HAVE CURTISS ELECTRIC PMP. (f) ROCKETS INSTALLED ON P-47D-35-RA ONLY. KITS PROCURED FOR SERVICE INSTALLATION OF ROCKETS ON SOME EARLIER MODELS.	
P-47D-RA & RE -1 thru -22	1	PRATT-WHITNEY R-2800-59 TURBO	T 2000/5 L W 2300/31000 M 2000/33000 C 1625/30000	S 40' 9" L 36' 1" H 14' 7" T 15' 5" W 300 Sq. Ft.	B 10700 C 14500 W - M -	1	MAIN - FUSEL. 1 x 270 AUX. - FUSEL. 1 x 100 DROP - BELLY 1 x 75 or 1 x 110 DROP - WINGS 2 x 150 or 2 x 300	6 (5") ROCKETS WITH, OR 10 (5") ROCKETS WITHOUT BOMBS OR EXT. TANKS	5	267	WINGS - FIXED	NONE	2-1000 3- 500 3- 325 3- 250 3- 100	2-1000 1- 500 2500			
P-47E-RE -25, -27, -29, -30	1	PRATT-WHITNEY R-2800-57 TURBO	T 2100/5 L W 2500/22500 M 2100/28800 C 1700/32000	S 40' 9" L 35' 4" H 14' 9" T 15' 5" W 300 Sq. Ft.	B 11100 C 14700 W - M -	1	MAIN - FUSEL. 1 x 270 AUX. - FUSEL. 1 x 100 DROP - BELLY 1 x 110	6 (5") ROCKETS WITH, OR 10 (5") ROCKETS WITHOUT BOMBS OR EXT. TANKS	5	267	WINGS - FIXED	A 5	A 8 0 0 0 E				
P-47N-RE -1	1	PRATT-WHITNEY R-2800-57 TURBO	T 2100/5 L W 2500/22500 M 2100/28800 C 1700/32000	S 40' 9" L 35' 4" H 14' 9" T 15' 5" W 300 Sq. Ft.	B 11100 C 14700 W - M -	1	MAIN - FUSEL. 1 x 270 AUX. - FUSEL. 1 x 100 DROP - BELLY 1 x 110	6 (5") ROCKETS WITH, OR 10 (5") ROCKETS WITHOUT BOMBS OR EXT. TANKS	5	267	WINGS - FIXED	A 5	A 8 0 0 0 E				
P-47N-RE -1, -5, -15, -20, -25	1	PRATT-WHITNEY R-2800-57, -73 or -77 TURBO	T 2100/5 L W 2500/22500 M 2100/28800 C 1700/32000	S 42' 7" L 36' 1" H 14' 8" T 15' 5" W 322 Sq. Ft.	B 11500 C 15200 W - M -	1	MAIN - FUSEL. 1 x 270 AUX. - FUSEL. 1 x 100 AUX. - WINGS 2 x 93 DROP - BELLY 1 x 75 or 1 x 110 DROP - WINGS 2 x 150 or 2 x 300	6 (5") ROCKETS WITH, OR 10 (5") ROCKETS WITHOUT BOMBS OR EXT. TANKS	5	267	WINGS - FIXED	A 5	A 8 0 0 0 E				

MODEL & BLOCK-NO.	TAKE OFF & LANDING HARD SURFACE - NO WIND						HIGH SPEED & CLIMB CLEAR AIRPLANE AT NORMAL COMBAT WEIGHT						RANGE AND ENDURANCE STATUTE AIR MILES - NO WIND - NO ALLOWANCE FOR RESERVE										REMARKS			
	GROSS WEIGHT	TO CLEAR 50'		GROUND RUN		WEIGHT	STD. ALT.	WAR EMERG.		MIL. POWER		MAX. CONTIN. POWER		LOADING		MAX. CONTINUOUS POWER		MAX. CRUISE POWER		LONG RANGE						
		TO. DIST.	LAND DIST.	LANDING SPEED	T.O. DIST.			LAND DIST.	HIGH SPEED	RATE OF CLIMB	HIGH SPEED	RATE OF CLIMB	HIGH SPEED	RATE OF CLIMB	TAKE OFF WEIGHT	BOMBS CARGO	TOTAL FUEL	at 10000FT.	at 25000FT.	at 10000FT.	at 25000FT.	RANGE		ENDUR.	RANGE	ENDUR.
P-47C-RE -1 & -5	11000	3000	2200	92	1200	11000	25000	423	1375	420	384	850	20.0	18200	1015	680	2.7	790	-	-	-	-	-	-	1720	7.5
P-47D-RA & RE -1 thru -22	14000	3400	2800	106	2300	13500	20000	406	2190	400	2050	355	6	15600	605	650	2.4	720	2.3	-	-	-	-	-	1520	6.6
P-47E-RE -25, -27, -29, -30	15000	4000	-	-	3000	15000	380	2400	384	2200	350	6	14300	415	480	1.5	480	1.5	-	-	-	-	-	-	3080	6.4
P-47N-RE -1	18000	6000	-	-	4100	18000	10000	372	2625	358	2300	335	6	14100	350	400	1.4	440	1.4	-	-	-	-	-	820	6.0
P-47N-RE -1, -5, -15, -20, -25	20000	8500	-	-	6700	20000	353	2750	352	2350	320	6	13500	305	320	1.1	350	1.0	640	2.3	640	2.1	835	3.5	-	-

NOTES: (a) THREE OR MORE OF THE FOLLOWING: SCR-274 COMMAND SET, SCR-522 COMMAND SET, SCR-535 IFF, SCR-195 IFF, MN-26 COMPASS, KC-96 CONTACTOR EQUIPMENT, AN/AP5-13 TAIL WARNING RADAR, AN/ARA-8 HOOKING ADAPTER, AN/ARC-3 COMMAND LINK, SC-1205 SEARCH RECEIVER.

RED FIGURES ARE PRELIMINARY; SUBJECT TO REVISION AFTER FLIGHT CHECK. * TIME TO CLIMB FROM S.L. BASED ON MILITARY POWER.

P-47D CARRYING (10) 5" HYAR OR POST TYPE LAUNCHER AFFECTS THE FOLLOWING TWO: (1) TAKE-OFF GROUND ROLL INCREASED BY 20% TO 25%. (2) TIME TO CLIMB TO 15000' AT MAX. CONTIN. INCREASED BY 2.5 MIN. (3) COMBAT RADIUS OF ACTION DECREASED BY 6%.

P-47N MAX. CRUISE NOTE 1 & 2 THE FOLLOWING WAS USED IN LIEU OF MAX. CRUISE POWER. 1. COL. III, APPENDIX I OF THE T.O. 2. COL. III, APPENDIX I OF THE T.O.

P-47N FLIGHT TEST IN PROGRESS

P-47 THUNDERBOLT

MANUFACTURED BY REPUBLIC (FARMINGDALE) "RE" & (EVANSVILLE) "RA"

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TACTICAL PLANNING CHARACTERISTICS & PERFORMANCE CHART

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MODEL & BLOCK-NO.	ENGINE & PROP.		SIZE		WEIGHT		COMBAT CREW	FUEL & OIL		ARMAMENT			BOMBS			RADIO	REMARKS & REFERENCE
	NUMBER	ENGINE MFR. MODEL SUPERCHARGER PROP. MFR. TYPE	B.H.P./ALT.	S-SPAN L-LENGTH H-HEIGHT T-TREAD W-WING AREA	B-BASIC C-COMBAT W-WAR MAX. N-MAX. LAND.	NOTES		FUEL TANKAGE		(NO. ROCKETS-SIZE-INSTALLATION)			NO. AND SIZE				
								T-TAKE OFF W-WAR EMERG M-MILITARY C-CONTINUOUS	TYPE OR LOCATION ALSO (MAX. OIL)	NO AND CAPACITY ALSO (MAX. FUEL)	NO. GUNS AND SIZE	RDS. PER GUN	LOCATION AND TYPE	INTERNAL	EXTERNAL		
P-51B-NA -1, -5, -7, -10	1	PACKARD V-1650-3 2 SPEED-2 STAGE HAMILTON STD. 11"2" DIA.-4 BL. CONST. SPD., HYDRO.	1400/1800 1250/2200 1190/3100 1120/2050 940/3400	S 37' 0" L 32' 3" H 13' 8" T 11'10" W 233 Sq. Ft.	B 7450 C 9400	I	M	MAIN - R. WING MAIN - L. WING FUSELAGE DROPP. - WINGS (21)	1 x 92 1 x 92 1 x 85 2 x 75 or 2 x 110 or 2 x 150 (569)	6 (5") ROCKETS OR 9 (5") H-10 ROCKETS PROCURED IN SERVICE KITS FOR SOME MODELS.	280 350	OUTDR. - WINGS INBD. - WINGS	NONE	2-1000 2- 900 2- 325 2- 250 2- 100	SCR-274 SCR-515 SCR-522 SCR-525 SCR-525 SCR-595 AN-ARA-5 AN-ARC-3 AN-APS-13 RC-1206 RW-25	REFER TO PAGE 4 FOR "FOREWORD" REFER TO PAGE 3 FOR SECURITY CLASSIFICATION. REFER TO PAGE 5 FOR DEFINITIONS. REFER TO T.O. LISTED FOR DETAILED PLANNING. P-51B & C TECH. ORDER 01-804J-1 (REV. 25 MAY 1945) P-51D & K TECH. ORDER 01-804E-1 (REV. 25 AUG. 1945) P-51H TECH. ORDER 01-804F-1 (REV. 10 JULY 1945) (a) P-51H-WT HAS 11"0" DIA. AEROPRODUCTS PROPELLER INSTALLED, GIVING APPROX. SAME PERFORMANCE AS SHOWN WITH HAMILTON STD. P.M.P. (b) ROCKETS INSTALLED ON LAST (1100) P-51D-25-WA; P-51D-20-WT; P-51H-10 & -15 AND SUBSEQUENT MODELS. KITS PROCURED FOR SERVICE INSTALLATION ON SOME OF OTHER MODELS.	
P-51C-NT -5 & -10																	1895/10300 1390/24000 1150/13000 1250/24500 1150/17000 980/29000
P-51D-WA -5 thru -30 P-51D-WT -5 thru -25 P-51H-WT -1 thru -15	1	AS ABOVE EXCEPT P-51D-25-WA & P-51D-30-WA HAVE V-1650-9 ENGINE INSTALLED	AS ABOVE	AS ABOVE	B 7650 C 10100	I	M	MAIN - R. WING MAIN - L. WING FUSELAGE DROPP. - WINGS (21)	1 x 92 1 x 92 1 x 85 2 x 75 or 2 x 110 2 x 150 (489)	7 (5") ROCKETS WITH, OR 10 (5") ROCKETS WITHOUT EXTERNAL WING BOMBS OR TANKS.	270 270 400	OUTDR. - WINGS CENTER - WINGS INBD. - WINGS	NONE	2-1000 2- 900 2- 325 2- 250 2- 100	SCR-274 SCR-515 SCR-522 SCR-525 SCR-525 SCR-595 AN-ARA-5 AN-ARC-3 AN-APS-13 RC-1206 RW-25	REFER TO PAGE 4 FOR "FOREWORD" REFER TO PAGE 3 FOR SECURITY CLASSIFICATION. REFER TO PAGE 5 FOR DEFINITIONS. REFER TO T.O. LISTED FOR DETAILED PLANNING. P-51B & C TECH. ORDER 01-804J-1 (REV. 25 MAY 1945) P-51D & K TECH. ORDER 01-804E-1 (REV. 25 AUG. 1945) P-51H TECH. ORDER 01-804F-1 (REV. 10 JULY 1945) (a) P-51H-WT HAS 11"0" DIA. AEROPRODUCTS PROPELLER INSTALLED, GIVING APPROX. SAME PERFORMANCE AS SHOWN WITH HAMILTON STD. P.M.P. (b) ROCKETS INSTALLED ON LAST (1100) P-51D-25-WA; P-51D-20-WT; P-51H-10 & -15 AND SUBSEQUENT MODELS. KITS PROCURED FOR SERVICE INSTALLATION ON SOME OF OTHER MODELS.	
P-51H-NT																	1880/10200 1220/20200 1180/25400 1170/21300 1190/24900 1080/22100 930/32000

MODEL & BLOCK-NO.	TAKE OFF & LANDING HARD SURFACE-NO WIND				HIGH SPEED & CLIMB CLEAN AIRPLANE AT NORMAL COMBAT WEIGHT								RANGE AND ENDURANCE STATURE AIR MILES-NO WIND- NO ALLOWANCE FOR RESERVE										REMARKS				
	GROSS WEIGHT LB.	TO CLEAR 50'		LANDING SPEED MPH	GROUND RUN		STD. ALT. FT.	WAR EMERG.		MIL. POWER		MAX. CONTIN. POWER		LOADING			MAX. CONTINUOUS POWER		MAX. CRUISE POWER		LONG RANGE						
		T.O. DIST. FT.	LAND DIST. FT.		T.O. DIST. FT.	LAND DIST. FT.		HIGH SPEED MPH	RATE OF CLIMB FT. MIN.	HIGH SPEED MPH	RATE OF CLIMB FT. MIN.	HIGH SPEED MPH	RATE OF CLIMB FT. MIN.	TIME TO CLIMB MIN.	TAKE OFF WEIGHT LB.	BOMBS CARGO PASS.	TOTAL FUEL U.S. GAL.	RANGE MILES	ENDUR. HOURS	RANGE MILES	ENDUR. HOURS	RANGE MILES		ENDUR. HOURS	RANGE MILES	ENDUR. HOURS	
P-51B & C SERIES WITH (V-1650-3)	8000 9000 10000 11000 12000	- 2200 2500 3000 3500	2100 2300 2500 3000 3500	100 108 111 111 111	1100 1200 1300 1300 1300	30000 29000 20000 15000 10000 5000	440 430 427 424 406 388	1825 2425 2525 3075 3150 3050	433 418 427 414 392 374	1825 2175 2475 2800 2700 2600	397 390 405 373 353 335	- 1200 1500 1800 1000 770	15.0 11.5 8.5 5.6 2.8	11900 11300 10800 9800 10800 11800	NONE NONE NONE NONE NONE NONE	569 489 419 269 269 269	1750 1500 1280 870 790 660	5.4 4.8 3.9 2.4 2.4 2.2	1950 1650 1430 950 870 720	5.4 4.6 4.0 2.4 2.4 2.2	2200 1700 1550 1100 1020 1000	7.5 5.6 5.0 3.3 3.1 3.4	2100 1720 1570 1050 1020 1000	6.1 5.7 5.0 2.8 2.8 3.4	2440 2080 1850 1300 1150 1070	9.8 8.5 7.7 5.0 4.8 4.3	P-51B & C PERFORMANCE SHOWN WITH EXTERNAL WING RACKS; WITHOUT RACKS THE HIGH SPEED INCREASES APPROX. 13 MPH. & RATE OF CLIMB APPROX. 50 FT. TO 100 FT. PER MIN.
P-51B & C SERIES WITH (V-1650-7)	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	30000 29000 20000 15000 10000 5000	435 428 425 414 407 395	1425 2100 2825 2900 3075 3475	435 428 414 414 362 340	1425 2100 2450 2800 1800 1750	415 406 398 388 352 340	- 15.0 11.5 8.5 5.6 2.8	11900 11300 10800 9800 10800 11800	NONE NONE NONE NONE NONE NONE	569 489 419 269 269 269	1750 1500 1280 870 790 660	5.4 4.8 3.9 2.4 2.4 2.2	1950 1650 1430 950 870 720	5.4 4.6 4.0 2.4 2.4 2.2	2200 1700 1550 1100 1020 1000	7.5 5.6 5.0 3.3 3.1 3.4	2100 1720 1570 1050 1020 1000	6.1 5.7 5.0 2.8 2.8 3.4	2440 2080 1850 1300 1150 1070	9.8 8.5 7.7 5.0 4.8 4.3	HIGH SPEED LOSSES AT MILITARY POWER WHEN CARRYING 10 (5") AIR DR. HYDR. OR RAILS WILL BE APPROX. WITH ROCKETS OR RAILS 10000' 25000'		
P-51D & K SERIES	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	30000 29000 20000 15000 10000 5000	423 424 413 418 418 395	1300 2575 2775 2925 2925 3475	433 428 413 413 362 340	1300 1950 2425 2800 1800 1750	413 389 387 367 352 340	- 11.00 10.00 11.00 12.00	11900 11100 10100 11100 11100 12100	NONE NONE NONE NONE NONE NONE	489 419 269 269 269 269	1500 1270 870 790 770	4.6 3.9 2.4 2.4 2.4	1650 1410 950 870 840	4.6 3.9 2.4 2.4 2.5	1920 1550 1050 1000 950	5.4 4.9 3.2 3.2 3.5	1770 1570 1050 990 900	5.4 5.1 2.8 3.1 2.8	2080 1830 1300 1150 1070	8.5 7.7 5.0 4.8 4.3	HIGH SPEED LOSSES AT MILITARY POWER WHEN CARRYING 10 (5") AIR DR. HYDR. OR RAILS WILL BE APPROX. WITH ROCKETS OR RAILS 10000' 25000'		
P-51H-NT	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	30000 29000 20000 15000 10000 5000	486 487 452 457 453	2650 3400 3750 3750 4675	440 425 430 415 395	2250 2500 2600 3100 3000	404 399 397 378 357	- 11.25 12.25 9.0 17.25	11900 10500 9500 10500 11500	NONE NONE NONE NONE NONE	475 405 255 235 255	1320 1190 750 870 850	4.0 3.4 2.1 2.1 2.1	1470 1270 800 720 800	4.2 3.5 2.1 2.1 2.1	1670 1400 900 820 800	5.0 5.0 2.7 2.8 2.8	1750 1570 1020 990 950	6.2 5.6 2.8 3.1 2.8	2050 1720 1170 1020 950	8.5 7.2 4.9 4.3 4.0	WITH RAILS (NO ROCKETS) 10000' 25000'		



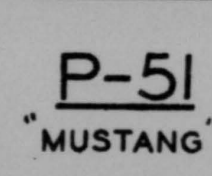
NOTES: THREE OR MORE OF THE FOLLOWING:

- (A) SCR-274 COMMAND SET
- SCR-515 IFF
- SCR-522 COMMAND SET
- SCR-525 IFF
- SCR-595 IFF
- AN-ARA-5 DOWNING ADAPTER
- AN-ARC-3 COMMAND (WT)
- AN-APS-13 TAIL WARNING RADAR
- RC-1206 BEACON RECEIVER
- RW-25 RADIO COMPASS

WEIGHT LB.	STD. ALT. FT.	WAR EMERG.	
		HIGH SPEED MPH	RATE OF CLIMB FT. MIN.
30000	450	450	2250
25000	435	435	2750
20000	430	430	3050
15000	430	430	3220
10000	405	405	3350
5000	380	380	3300

RED FIGURES ARE PRELIMINARY: SUBJECT TO REVISION AFTER FLIGHT CHECK.
WAR EMERGENCY HIGH SPEED AND RATE OF CLIMB BASED ON 80" HG. (WATER INJECTION) AND FUEL GRADE AA-F-25.

LOSSES DUE TO ROCKET INSTALLATIONS:
(1) COMBAT RADIUS OF ACTION DECREASED BY 12%.
(2) (10)5" HYDR. ON POST TYPE LAUNCHERS INCREASE TAKE-OFF GROUND RUN BY 20%.
(3) 4.5 (WB) ROCKET WITH ADAPTER HAS SAME DRAG AS 5" HYDR.

P-51 "MUSTANG"

MANUFACTURED BY NORTH AMERICAN (INSLWOOD) "NA" & (DALLAS) "NT"

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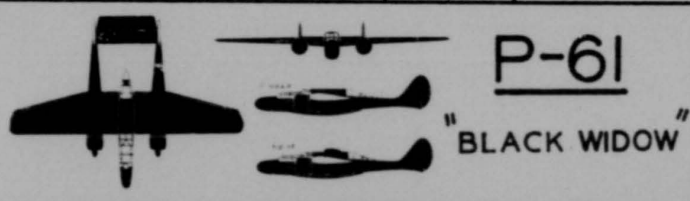
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TACTICAL PLANNING CHARACTERISTICS & PERFORMANCE CHART																	
MODEL & BLOCK-NO.	ENGINE & PROP.			SIZE		WEIGHT		COMBAT CREW	FUEL & OIL		ARMAMENT			BOMBS		RADIO	REMARKS & REFERENCE
	NUMBER	ENGINE MFR. MODEL SUPERCHARGER PROP MFR. TYPE	B.H.P./ALT.	S-SPAN L-LENGTH H-HEIGHT T-TREAD W-WING AREA	B-BASIC C-COMBAT W-WAR MAX. M-MAX.LAND.	NOTES	FUEL TANKAGE		NO. GUNS AND SIZE			NO. AND SIZE		MAX. LOAD			
							T-TAKE OFF W-WAR EMERG. M-MILITARY C-CONTINUOUS		TYPE OR LOCATION ALSO (MAX. OIL)	NO AND CAPACITY ALSO (MAX. FUEL)	NO. GUNS AND SIZE	RDS PER GUN	LOCATION AND TYPE		INTERNAL		
P-61A-NO -1	2	PRATT-WHITNEY R-2800-10 2 SPD.-2 STG. CURTISS 12' 2" DIA. - 4 BL. F.F., ELECTRIC	2000/4000 1800/1600 1675/1400 1925/1700 1950/22700	S 56' 0" L 48' 11" H 14' 8" T 17' 2" W 66 1/2 Ft.	B 22300 C 27400 W - M -	2 or 3	OUTRD.-WINGS 2 x 205 INRD.-WINGS 2 x 115 (94)	2 x 115 2 x 115 (640)	4-.50 4-20mm	560 200	UPPER TURRET FORE-FUSELAGE	N O N E					P-61A & B TECH. ORDER 01-15FB-1 (REV. 10 MAY 1945) (a) INSTALLED ON FIRST 37 (P-61A-1) ONLY. (b) THE (2) 310 GAL. DROPPABLE WING TANKS OR 2-1600 LB. BOMBS INSTALLED ONLY ON P-61A-11; P-61B-2, -C & -11 MODELS; OTHERS AS ABOVE. (c) 155 GAL. TANKS, 310 GAL. TANKS OR BOMBS MAY BE CARRIED. NO MIXED COMBINATION OF TANKS OR BOMBS. * CRITICAL ALTITUDES HAVE NOT BEEN DETERMINED.
P-61A-NO -5, -10, -11	2	AS ABOVE EXCEPT CHANGE TO R-2800-45 ENGINE	2000/4000 2260/1000 2040/1260 1930/17000	AS ABOVE EXCEPT P-61B HAS 49' 7" LENGTH	B 22300 C 28000 W - M -	2	OUTRD.-WINGS 2 x 205 INRD.-WINGS 2 x 115 DROPP.-WINGS 2 x 165 or 2 x 310 b (84)	2 x 205 2 x 115 2 x 165 or 2 x 310 b (1240)	4-20mm	200	FORE-FUSELAGE	NONE					
P-61B-NO -10	2	AS ABOVE	2000/4000 1800/1600 1675/1400	AS ABOVE	B 22650 C 28000 W - M -	2	OUTRD.-WINGS 2 x 205 INRD.-WINGS 2 x 115 DROPP.-WINGS 4 x 165 or 4 x 310 (c) (84)	2 x 205 2 x 115 4 x 165 or 4 x 310 (c) (1880)	A S A B O V E			NONE					
P-61B-NO -15, -16, -20, -25	2	AS ABOVE	1675/1400 1825/1700 1950/22700	AS ABOVE	B 23450 C 29700 W - M -	3	AS ABOVE EXCEPT P-61B-16 CARRIES ONLY (2) DROPPABLE WING TANKS.		4-.50 4-20mm	560 200	UPPER TURRET FORE-FUSELAGE	AS ABOVE EXCEPT P-61B-16 HAS ONLY (2) EXTERNAL BOMB STATIONS IN PLACE OF (4)					
P-61C	2	PRATT-WHITNEY R-2800-73 GE TURBO CURTISS 12' 8" - 4 BL. F.F., ELECTRIC	T 2100 W 3800 M 2100 C 1700	S 56' 0" L 49' 7" H 14' 3" T 17' 1" W 66 1/2 Ft.	B 24300 C 30200 W - M -	2	OUTRD.-WINGS 2 x 215 INRD.-WINGS 2 x 115 DROPP.-WINGS 4 x 165 or 4 x 310 (84)	2 x 215 2 x 115 4 x 165 or 4 x 310 1880	A S A B O V E			NONE					

MODEL & BLOCK-NO.	TAKE OFF & LANDING HARD SURFACE-NO WIND						HIGH SPEED & CLIMB CLEAN AIRPLANE AT NORMAL COMBAT WEIGHT										RANGE AND ENDURANCE STATUTE AIR MILES-NO WIND- NO ALLOWANCE FOR RESERVE										REMARKS			
	GROSS WEIGHT LB.	TO CLEAR 50'		GROUND RUN		WEIGHT LB.	STD. ALT. FT.	WAR EMERG.		MIL. POWER		MAX. CONTIN. POWER		LOADING		MAX. CONTINUOUS POWER		MAX. CRUISE POWER		LONG RANGE										
		T.O. DIST. FT.	LAND DIST. FT.	LANDING SPEED MPH	T.O. DIST. FT.			LAND DIST. FT.	HIGH SPEED MPH	RATE OF CLIMB FT/MIN.	HIGH SPEED MPH	RATE OF CLIMB FT/MIN.	HIGH SPEED MPH	RATE OF CLIMB FT/MIN.	TIME TO CLIMB MIN.	TAKE OFF WEIGHT LB.	BOMBS GROSS WT. LB.	TOTAL FUEL U.S. GAL.	at 10000FT. RANGE MILES	at 10000FT. ENDUR. HOURS	at 25000FT. RANGE MILES	at 25000FT. ENDUR. HOURS	at 10000FT. RANGE MILES	at 10000FT. ENDUR. HOURS						
P-61A-NO -1	24000 26000 28000	- 2600 2900	2100 2200 2300	- - -	1400 1500 1700	30000 25000 20000 15000 10000 5000	25000	NOT APPLICABLE						500 18.1 # 14.0 # 10.1 # 7.1 # 4.5 # 2.2	27600	NONE	640	370	1.2	420	1.3	810	2.7	790	2.9	1020	4.5	PERFORMANCE SHOWN WITHOUT DE-ICERS. (c) CRUISE AT 15000' UNTIL EXTERNAL TANKS ARE EMPTY; DROP EXTERNAL TANKS; CLIMB TO 25000' AND COMPLETE FLIGHT.		
P-61A-NO -5, -10, -11	24000 26000 28000	- 2600 2900	2100 2200 2300	- - -	1400 1500 1700	30000 25000 20000 15000 10000 5000	28000	358 356 364 355 333 324	1025 1625 2250 2550 2600	360 356 350 333 324	1025 1625 1900 2000 2150	360 355 343 323 305	47.5 18.9 # 14.3 # 10.3 # 7.2 # 4.6 # 2.2	32400 30400 28000 30350 32350	NONE NONE NONE 2000 4000	1260 970 640 2000 840	750 560 370 -	2.4 1.8 1.2	- 520 420	- 1.8 1.3	- 1140 800	- 4.5 2.7	- 1030 600	- 4.1 2.2	- 1900 1625 1020	- 6.8 6.3 4.5				
P-61B-NO -10	24000 26000 28000 30000 32000 34000 36000	- 2900 3300 -	2100 2200 2300 -	- - 2500 -	1400 1500 1700 -	30000 25000 20000 15000 10000 5000	28000	A S A B O V E						36650 32750 30750 28350 30350 32350	NONE NONE NONE 2000 4000	1880 1260 970 640 2000 840	- 750 560 370 -	- 2.4 1.8 1.2	- 520 420	- 1.8 1.3	- 1140 800	- 4.5 2.7	- 1030 600	- 4.1 2.2	- 1900 1625 1020	- 6.8 6.3 4.5	P-61B FLIGHT TEST IN PROGRESS			
P-61B-NO -15, -16, -20, -25	24000 26000 28000 30000 32000 34000 36000	- 2900 3300 -	2100 2200 2300 -	- - 2500 -	1400 1500 1700 -	30000 25000 20000 15000 10000 5000	29700	352 356 352 333	825 1400 1950 2250	356 354 348 331	800 1300 1575 1825	357 352 340 318 300	- # 12.0 # 8.6 # 5.6 # 2.7	38300 34000 30200 36600 34200	NONE NONE NONE 2000 4000	1840 1300 940 2000 840	980 730 360 670 320	3.8 2.5 1.2	1090 770 370	3.8 2.8 1.2	1220 1030 400	3.8 4.0 1.8	1250 940 450	4.7 5.3 1.5	1920 1490 830	9.4 7.4 4.8				
P-61C series	25000 30000 35000 40000	2800 8100	2650	- 1800 2900 2650	1850	30000 25000 20000 15000 10000 5000	30000	NO DATA AVAILABLE						344 340 330 318 306 283	1000 1200 1350 1500 1600 1700	21.0 16.5 12.5 9.0 8.0	38300 34000 30200 36600 34200	NONE NONE NONE 2000 4000	1840 1300 940 2000 840	980 730 360 670 320	3.8 2.5 1.2	1090 770 370	3.8 2.8 1.2	1220 1030 400	3.8 4.0 1.8	1250 940 450	4.7 5.3 1.5		1920 1490 830	9.4 7.4 4.8

- NOTES:
 (A) SEVEN OR MORE OF FOLLOWING:
 SC-274 COMMAND SET
 SC-422 COMMAND SET
 SC-434
 SC-435
 SC-436
 SC-437
 SC-438
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 SC-499
 SC-500

RED FIGURES ARE PRELIMINARY; SUBJECT TO REVISION AFTER FLIGHT CHECK.
 * TIME TO CLIMB FROM S.L. BASED ON MILITARY POWER.



P-61
 "BLACK WIDOW"

MANUFACTURED BY NORTHROP (HAWTHORNE) "NO"
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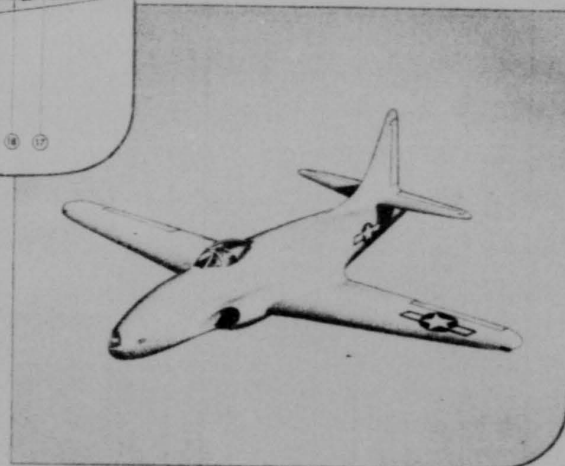
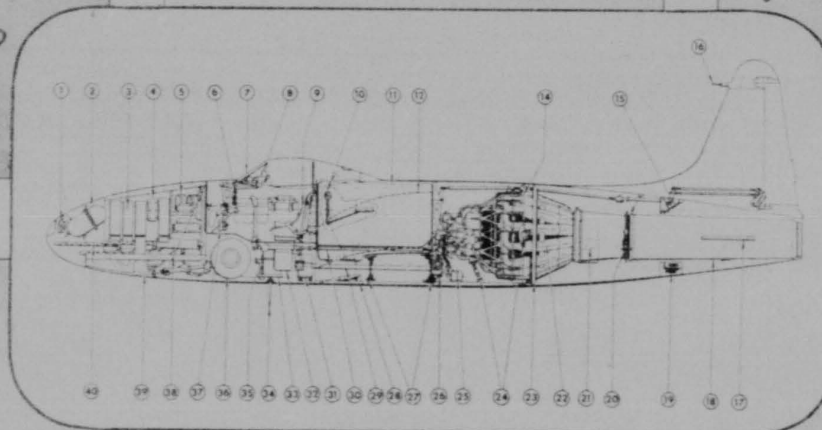
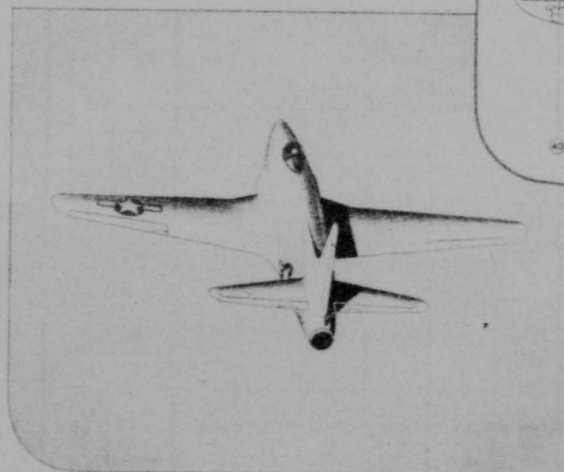
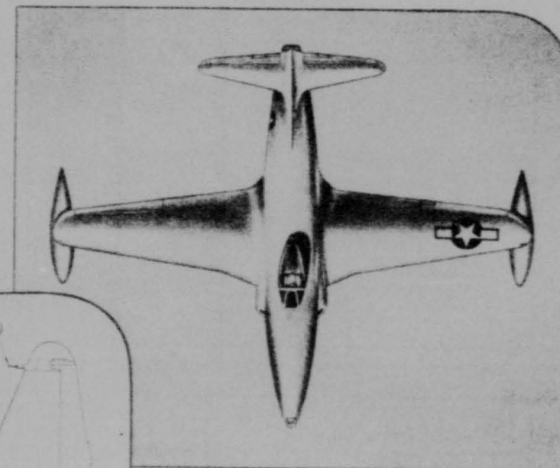
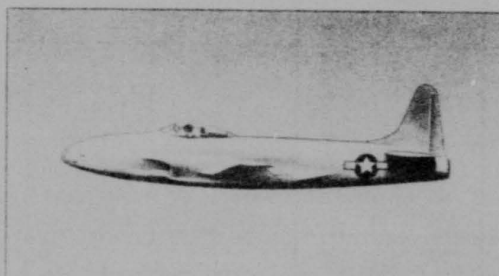
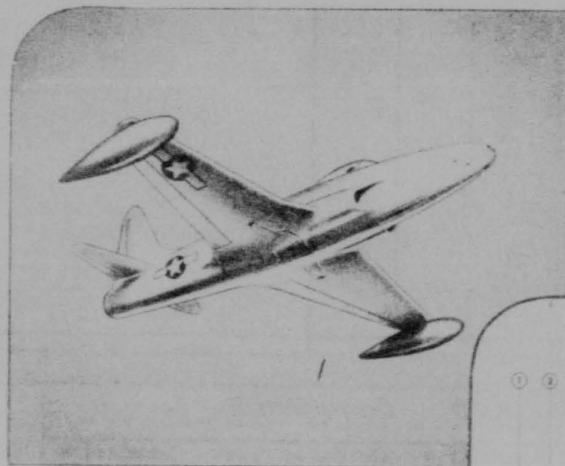
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PAGE 38
AS OF:
29 JUNE 1945

LOCKHEED P-80A

Shooting Star



- | | |
|-----------------------------|----------------------------------|
| 1. Landing light | 21. Elevator tab motor |
| 2. Oxygen cylinder | 22. Engine |
| 3. Ammunition box | 23. Air intake seal |
| 4. Armament junction box | 24. Engine mounts |
| 5. Command radio | 25. Fuel filter |
| 6. Instrument panel | 26. Aileron booster |
| 7. Bullet-proof windshield | 27. Wing spars |
| 8. Gun sight | 28. Dive flaps |
| 9. Pilot's seat | 29. Aileron torque tube |
| 10. Fuel gauge transmitter | 30. Elevator push-pull tube |
| 11. Main fuel tank | 31. Identification radio |
| 12. Air intake duct | 32. Electrical junction box |
| 13. Aft fuselage joint | 33. Battery |
| 14. Elevator spring | 34. Identification radio antenna |
| 15. Air speed pitot | 35. Elevator-aileron control |
| 16. Tail pipe support track | 36. Nose wheel |
| 17. Tail pipe | 37. Rudder pedals |
| 18. Tail pipe clamp | 38. Nose section joint |
| 19. Gyro compass | 39. Shell case ejection doors |
| 20. Tail pipe clamp | 40. Machine guns--30 cal. |

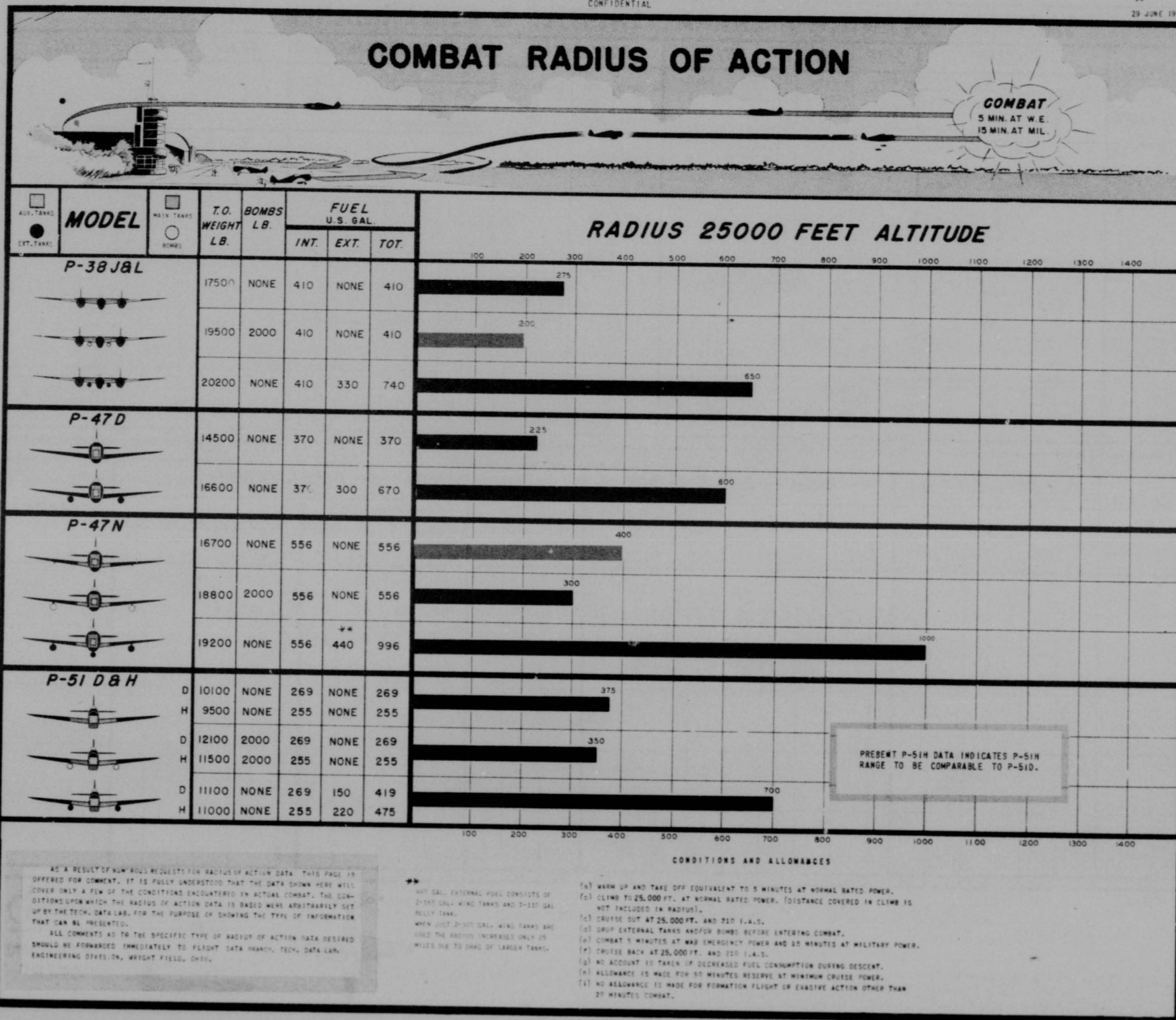
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40
29 JUNE 1945

COMBAT RADIUS OF ACTION



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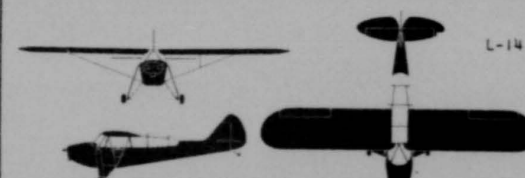
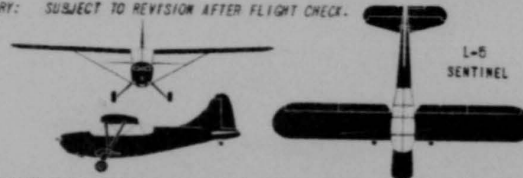
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TACTICAL PLANNING CHARACTERISTICS & PERFORMANCE CHART																						
MODEL & BLOCK-NO.	ENGINE & PROP.			SIZE		WEIGHT		FUEL & OIL		CARGO OR PASSENGERS			RADIO		REMARKS & REFERENCE							
	NUMBER	ENGINE MFR. MODEL SUPERCHARGER PROP. MFR. TYPE	B.H.P./ALT. T - TAKE OFF W - WAR EMERG. M - MILITARY C - CONTINUOUS	S-SPAN L-LENGTH H-HEIGHT T-TREAD W-WING AREA	B-BASIC C-COMBAT W-WAR MAX. M-MAX.LAND.	NOTES	COMBAT CREW	FUEL TANKAGE		STATION	CAPACITY	MAX. LOAD LB.	STATION	PLACES	MAX. LOAD LB.	TYPICAL MODELS CARRIED	REFER TO PAGE 4 FOR "FOREWORD" REFER TO PAGE 3 FOR SECURITY CLASSIFICATION REFER TO PAGE 5 FOR DEFINITIONS. REFER TO T.O. LISTED FOR DETAILED PLANNING.					
								TYPE OR LOCATION ALSO (MAX. OIL)	NO AND CAPACITY ALSO (MAX. FUEL)												L-5 CAN CARRY PASSENGER OR 200 LB. BAGGAGE IN LIEU OF OBSERVER. L-5B AND SUBSEQUENT CAN CARRY CASUALTY IN LITTER OR 200 LB. BAGGAGE IN LIEU OF OBSERVER.	SCB-274N AV-112 A7B-20A AN-6PP-1B SCB-510 ST-510 AN/ARC-3
AS OF 30 AUGUST 1945																						
L-5 L-5B L-5C L-5E L-5E-1	1	LYCOMING O-435-1 NONE SEKSEWICH 7" 1" DIA.-2 BL. FIXED-WOOD	T 185/ S L W NONE M NONE C 185/ S L	S 34' 0" L 24' 11" H 7' 11" T 7' 5" W 155 Sq. Ft.	B 1550 C 2200 W 2200 M 2200		2 or 1	WINGS (3)	2 x 15 (36)						SCB-274N AV-112 A7B-20A AN-6PP-1B SCB-510 ST-510 AN/ARC-3	L-5 SERIES L-14 TECH. ORDER 01-5008-1 (10 AUGUST 1945) TECH. ORDER 01-14000-1 (25 JULY 1945)						
L-5G-VW	1	LYCOMING O-435-11 NONE ANNESLEY-2 BLADE 7" 1" METAL CONTROLLABLE PITCH	T 185/ S L W NONE M NONE C 185/ S L	S L H T W	B 1525 C 2300 W 2300 M 2300						A B O V E											
L-14-P1	1	LYCOMING O-290-3 NONE SEKSEWICH 6" 4" DIA.-2BL. FIXED-WOOD	T 130/ S L W NONE M NONE C 125/ S L	S 35' 10" L 23' 0" H 7' 0" T 8' 4" W 181 Sq. Ft.	B 1100 C 1800 W 1800 M		2 or 1	WINGS FUSelage (2)	2 x 14 1 x 2 (30)			N O W E	CABIN 0' 0'	170 340	SCB-610A							
COLUMN	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18				

MODEL & BLOCK-NO.	TAKE OFF & LANDING HARD SURFACE-NO WIND					HIGH SPEED & CLIMB CLEAN AIRPLANE AT NORMAL COMBAT WEIGHT								RANGE AND ENDURANCE STATUTE AIR MILES-NO WIND- NO ALLOWANCE FOR RESERVE										REMARKS						
	GROSS WEIGHT LB.	TO CLEAR 50'		LANDING SPEED MPH	GROUND RUN		WEIGHT LB.	STD. ALT. FT.	WAR EMERG.		MIL. POWER		MAX. CONTIN. POWER		LOADING			MAX. CONTINUOUS POWER				MAX. CRUISE POWER			LONG RANGE					
		T.O. DIST.	LAND DIST.		T.O. DIST.	LAND DIST.			HIGH SPEED	RATE OF CLIMB	HIGH SPEED	RATE OF CLIMB	HIGH SPEED	RATE OF CLIMB	TIME TO CLIMB	TAKE OFF WEIGHT	BOMBS CARGO PASS.	TOTAL FUEL	at 5000FT.		at 15000FT.		at 5000FT.		at 15000FT.		at 10000FT.			
		FT.	FT.		FT.	FT.			MPH	FT. MIN.	MPH	FT. MIN.	MPH	FT. MIN.	MPH	FT. MIN.	MIN.	LB.	LB.	U.S. GAL.	MILES	HOURS	MILES		HOURS	MILES	HOURS	MILES	HOURS	MILES
L-5 L-5B L-5C L-5E L-5E-1	1800 1900 2000 2100 2200	- - 1050 1150 1300	875 925 950 1000 -	- - 550 725 800	475 500 525 550 -	2200 15000 10000 5000 S L	- - - - -	- - - -	NOT APPLICABLE	APPLICABLE	115 119 123 130	150 400 650 900	35.5 16.0 6.4 0.0	2200 ^B 2200	200 ^D NONE	36 36	250 250	1.9 1.9	NOT APPLICABLE	380 350	3.4 3.2	NCT APPLICABLE	420 ^C 400 ^C	-		-		-		(b) INCLUDES PILOT AND PASSENGER OR LITTER, IN LIEU OF (2) CREW. (c) AT 8000 FT. ALTITUDE.
L-5G-VW	1900 2000 2100 2200 2300	- 950 1050 1150 1300	750 800 825 850 -	- 800 825 850 -	400 400 425 450 -	2300 10000 5000 S L	- - -	- -	NOT APPLICABLE	APPLICABLE	118 122 130	370 620 875	21.5 6.5 0.0	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	DATA NOT AVAILABLE			
L-14-P1	1300 1400 1600	- 675 1300	850 875 750	90 43 45	275 300 350	1800 10000 5000 S L	- -	- -	NOT APPLICABLE	APPLICABLE	- -	210 400	28.0 10.0	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	DATA NOT AVAILABLE		
	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48

NOTES:

RED FIGURES ARE PRELIMINARY: SUBJECT TO REVISION AFTER FLIGHT CHECK.



MANUFACTURED BY WALTER CONSOLIDATED (WAYNE, MICH.) *VW* & PIPER (LOCK HAVEN, PA.) *P1*

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TACTICAL PLANNING CHARACTERISTICS & PERFORMANCE CHART

PAGE 42

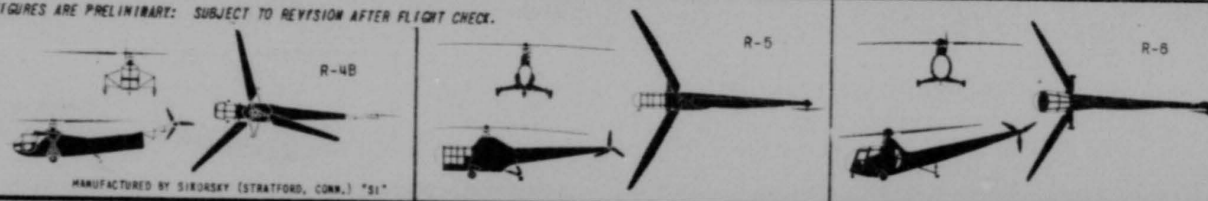
AS OF 30 AUGUST 1945

MODEL & BLOCK-NO.	ENGINE & PROP.			SIZE		WEIGHT		COMBAT CREW	FUEL & OIL		CARGO OR PASSENGERS			RADIO	REMARKS & REFERENCE			
	NUMBER	ENGINE MFR. MODEL SUPERCHARGER PROP. MFR. TYPE	B.H.P./ALT. T - TAKE OFF W - WAR EMERG M - MILITARY C - CONTINUOUS	S-SPAN L-LENGTH H-HEIGHT T-TREAD W-WING AREA	B-BASIC C-COMBAT W-WAR MAX M-MAX LAND	NOTES	FUEL TANKAGE		STATION	CAPACITY	MAX. LOAD LB.	STATION	PLACES			MAX. LOAD LB.	TYPICAL MODELS CARRIED	
							TYPE OR LOCATION (MAX. OIL)											NO. AND CAPACITY (MAX. FUEL)
R-4B-S1	1	WARNER R-550-3 NONE NOT APPLICABLE	T 200/ S L W NONE M NONE C 180/ S L	S 38' 0" L 48' 2" H 12' 5" T 10' 0" W 1134 Sq. Ft.	B 2050 C 2600 W - M -		2	FUSELAGE (3)	1 x 30 (30)	BRACKETS PROVIDED ON LEFT SIDE OF FUSELAGE AS BASIC PROVISIONS FOR INSTALLATION OF (1) LITTER OR BOMB RACK CARRYING (2) 100 LB. BOMBS.	CABIN	1 LITTER & CASUALTY	240	AVR-20 AVT-112	REFER TO PAGE 4 FOR "FOREWORD" REFER TO PAGE 3 FOR SECURITY CLASSIFICATION REFER TO PAGE 5 FOR DEFINITIONS. REFER TO T.O. LISTED FOR DETAILED PLANNING. R-4B TECH. ORDER 01-230HA-1 (30 APRIL 1945) R-5A TECH. ORDER 01-230HB-1 (25 FEBRUARY 1945) R-6A TECH. ORDER 01-230HC-1 (5 JULY 1945)			
R-5A-S1	1	PRATT-WHITNEY R-985 AX-5 or -7 NONE NOT APPLICABLE	T 450/ S L W NONE M NONE C 450/ S L	S 57' 1" L 41' 8" H 12' 11" T 12' 0" W 1610 Sq. Ft.	B 3780 C 4800 W 5200 M -		2	FUSELAGE (4)	2 x 90 (180)	STRUCTURAL PROVISIONS FOR ATTACHING LITTERS OR CARRYING (2) 250 OR (2) 325 OR (2) 350 OR (6) 100 LB. BOMBS.	CABIN	4 LITTERS & CASUALTIES	960	SCR-274				
R-6A-S1	1	FRANKLIN D-405-R NONE NOT APPLICABLE	T 225/ S L W NONE M NONE C 225/ S L	S 48' 0" L 34' 0" H 11' 0" T 9' 0" W 1134 Sq. Ft.	B 1700 C 2400 W 3100 M -		2	FUSELAGE (4)	1 x 75 (75)	A S A B O V E	CABIN	2 LITTERS & CASUALTIES	480	SCR-274				
			T W M C	S L H T W	B C W M													
			T W M C	S L H T W	B C W M													
COLUMN	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

MODEL & BLOCK-NO.	TAKE OFF & LANDING HARD SURFACE - NO WIND					HIGH SPEED & CLIMB CLEAN AIRPLANE AT NORMAL COMBAT WEIGHT								RANGE AND ENDURANCE STATUTE AIR MILES - NO WIND - NO ALLOWANCE FOR RESERVE										REMARKS		
	GROSS WEIGHT LB.	TO CLEAR 50'		LANDING SPEED MPH	GROUND RUN		WEIGHT LB.	STD. ALT. FT.	WAR EMERG.		MIL. POWER		MAX. CONTIN. POWER		LOADING			MAX. CONTINUOUS POWER		MAX. CRUISE POWER		LONG RANGE				
		T.O. DIST. FT.	LAND DIST. FT.		T.O. DIST. FT.	LAND DIST. FT.			HIGH SPEED MPH	RATE OF CLIMB FT/MIN	HIGH SPEED MPH	RATE OF CLIMB FT/MIN	HIGH SPEED MPH	RATE OF CLIMB FT/MIN	TIME TO CLIMB MIN	TAKE OFF WEIGHT LB.	BOMBS CARGO LB.	TOTAL FUEL U.S. GAL.	at SEA LEVEL	at 5000 FT.	at SEA LEVEL	at 5000 FT.	at SEA LEVEL		at 5000 FT.	at SEA LEVEL
R-4B-S1		AIRPLANE TAKE OFF AND LANDS VERTICALLY				2500	10000			NOT APPLICABLE		54	50	48.0	2600	NONE	30	110	1.4	-	-	-	-	130	1.8	(a) PILOT ONLY, WHEN CARRYING (1) CASUALTY IN LITTER OR 3x100 LB. BOMBS.
R-5A-S1		A S A B O V E				4800	15000			A S A B O V E		-	70	24.0	4800	NONE	100	200	1.8	-	-	-	-	280	3.5	(b) PILOT ONLY, WHEN CARRYING (4) CASUALTIES IN LITTERS OR 2x250 LB. BOMBS. FUEL REDUCTION NECESSARY TO RESTRICT TO 5200 LB.
R-6A-S1		A S A B O V E				2600	10000			A S A B O V E		-	220	26.0	2700	NONE	75	275	2.8	-	-	-	-	240	5.0	(c) WEIGHT INCLUDES PILOT ONLY.
		A S A B O V E					5000			A S A B O V E		-	800	6.5	3100	400	200	2.2	-	-	-	-	250	3.7	(d) PILOT ONLY, WHEN CARRYING (2) CASUALTIES IN LITTERS OR 2x250 LB. BOMBS. FUEL REDUCTION NECESSARY TO RESTRICT TO 3100 LB.	
		A S A B O V E								A S A B O V E		-	95	1000	0.0											(e) LONG RANGE SHOWN AT SEA LEVEL.
		A S A B O V E								A S A B O V E		-														

NOTES:

RED FIGURES ARE PRELIMINARY: SUBJECT TO REVISION AFTER FLIGHT CHECK.



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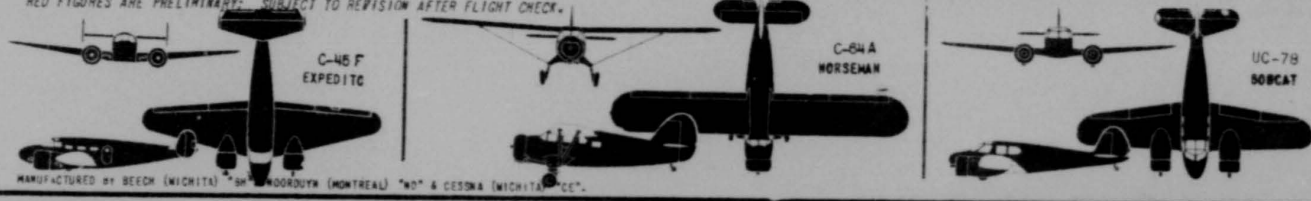
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TACTICAL PLANNING CHARACTERISTICS & PERFORMANCE CHART																		
MODEL & BLOCK-NO.	ENGINE & PROP.			SIZE		WEIGHT		COMBAT CREW	FUEL & OIL		CARGO OR PASSENGERS			RADIO		REMARKS & REFERENCE		
	NUMBER	ENGINE MFR. MODEL SUPERCHARGER PROP MFR. TYPE	B.H.P./ALT. T - TAKE OFF W - WAR EMERG M - MILITARY C - CONTINUOUS	S-SPAN L-LENGTH H-HEIGHT T-TREAD W-WING AREA	B-BASIC C-COMBAT W-WAR MAX. M-MAX.LAND	NOTES	FUEL TANKAGE		STATION	CAPACITY	MAX. LOAD	STATION	PLACES	MAX. LOAD	TYPICAL MODELS CARRIED	REFER TO PAGE 4 FOR "FOREWORD" REFER TO PAGE 3 FOR SECURITY CLASSIFICATION REFER TO PAGE 5 FOR DEFINITIONS. REFER TO T.O. LISTED FOR DETAILED PLANNING		
							TYPE OR LOCATION ALSO (MAX. OIL)											NO. AND CAPACITY ALSO (MAX. FUEL)
C-45F-BH	2	PRATT-WHITNEY R-985 AN-1 or -3 INTEGRAL HAMILTON STD. 8'3" DIA-2 BL. CONST. SPD.	T 450/5 L W NONE M NONE C 450/5 L	S 47' 8" L 34' 3" H 9' 8" T 12' 11" W 349 Sq. Ft.	B 5800 C 7450 W 8725 M 7850		MAIN - WINGS 2 x 75 AUX. - WINGS 2 x 25 (16) (205)					CABIN	5	1000	SCR-274M SCR-299G RC-438 RC-25 SCR-695			C-45F TECH. ORDER 01-9020-1 (REV. 15 FEB. 1945) C-54A TECH. ORDER 01-15508-1 (REV. 25 FEB. 1945) UC-78 SERIES TECH. ORDER 01-125-1 (REV. 20 NOV. 1944)
C-64A-ND	1	PRATT-WHITNEY R-1340 AN-1 INTEGRAL 9'1" or 9'7" DIA. 2 BL. CONST. SPD.	T 600/5 L W NONE M NONE C 550/5000	S 51' 6" L 32' 4" H 10' 1" T 9' 1" W 325 Sq. Ft.	B 4800 C 7400 W 9000 M 7400		WINGS FRONT BELLY 2 x 60 REAR BELLY 1 x 45 AUX. - CABIN 1 x 38 (20) (240)		CABIN	1500	1000	CABIN	4 LITTERS or 6 PASS.	1200	SCR-274M SCR-578 SCR-595 SCR-695 RC-198			
UC-78 UC-78B CE UC-78C	2	JACOBS R-755-9 WING HAMILTON STD. 7'9" DIA.-2 BL. CONST. SPD.	T 245/5 L W NONE M NONE C 225/5 L	S 41' 11" L 32' 9" H 9' 11" T 12' 7" W 295 Sq. Ft.	B 4200 C 5700 W 5700 M 5700		WINGS AUX. - FUSEL. 2 x 50 1 x 30 (10) (150)					CABIN	3	600	SCR-283			
COLUMN	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

MODEL & BLOCK-NO.	TAKE OFF & LANDING HARD SURFACE - NO WIND					HIGH SPEED & CLIMB CLEAN AIRPLANE AT NORMAL COMBAT WEIGHT										RANGE AND ENDURANCE STATUTE AIR MILES - NO WIND - NO ALLOWANCE FOR RESERVE										REMARKS				
	GROSS WEIGHT	TO CLEAR 50'		LANDING SPEED	GROUND RUN		WEIGHT	STD. ALT.	WAR EMERG.		MIL POWER		MAX CONTIN. POWER		LOADING		MAX. CONTINUOUS POWER				MAX. CRUISE POWER				LONG RANGE					
		T.O. DIST.	LAND DIST.		T.O. DIST.	LAND DIST.			HIGH SPEED	RATE OF CLIMB	HIGH SPEED	RATE OF CLIMB	HIGH SPEED	RATE OF CLIMB	TIME TO CLIMB	TAKE OFF WEIGHT	BOMBS CARGO PASS.	TOTAL FUEL	at 5000FT.		at 15000FT.		at 5000FT.		at 15000FT.		at 10,000FT.			
C-45F-BH	4500 7000 8000 8700	- 1100 1600 2100	1700 1800 1950 -	56 58 62 -	800 1100 1400 -	1200 1250 1400 -	7850 15000 10000 5000 S L	25000 28000 15000 10000 5000	NOT APPLICABLE	NOT APPLICABLE	188 206 210 215 206	350 550 900 1250 1200	29.0 15.8 8.5 4.1 0.0	7850 8725	NONE 1000	206 206	500 500	2.4 2.4	475 ^a 475 ^a	2.3 2.3	575 650	3.5 3.4	550 ^a 625 ^a	3.4 3.5	950 750	4.8 4.4	(a) SPECIAL OXYGEN PROVISIONS MUST BE MADE FOR ALTITUDE FLIGHTS. (b) AT 9000 FT. ALTITUDE.			
C-64A-ND	5500 6000 7000 8000	- 1250 1800 2800	1150 1200 1450 -	- 67 64 -	575 835 1100 1700	750 15000 10000 5000 S L	20000 15000 10000 5000	NOT APPLICABLE	NOT APPLICABLE	- - - 145	200 400 500 600	45.0 19.0 9.0 0.0	7400 7400	400 1500	280 120	750 250	5.0 1.7	900 ^a 350 ^a	6.0 2.5	1000 450	7.7 3.5	NOT APPLICABLE	1275 500	10.7 4.2						
UC-78 UC-78B CE UC-78C	4500 5000 5500 5700	- 1825 1700 2000	- - - -	- 425 - 725	- 850 - -	15000 10000 5000 S L	15000 10000 5000	NOT APPLICABLE	NOT APPLICABLE	144 181 171 175	220 520 350 410	36.0 15.0 9.0 0.0	5700 5700	400 600	150 120	600 475	3.6 2.8	675 500	2.9 2.3	775 575	4.9 3.6	NOT APPLICABLE	650 ^b 650 ^b	6.0 4.7						
COLUMN	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48

NOTES:

RED FIGURES ARE PRELIMINARY - SUBJECT TO REVISION AFTER FLIGHT CHECK.



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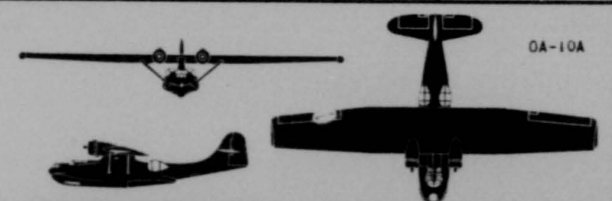
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TACTICAL PLANNING CHARACTERISTICS & PERFORMANCE CHART																		
MODEL & BLOCK-NO.		ENGINE & PROP.			SIZE		WEIGHT		FUEL & OIL		ARMAMENT			BOMBS		RADIO	REMARKS & REFERENCE	
		NUMBER	ENGINE MFR. MODEL SUPERCHARGER PROP. MFR. TYPE	B.H.P./ALT.		S-SPAN L-LENGTH H-HEIGHT T-TREAD W-WING AREA	B-BASIC C-COMBAT W-WAR MAX. M-MAX.LAND	NOTES	COMBAT CREW	FUEL TANKAGE		FWD-ROCKETS-SIZE-INSTALLATION		NO. AND SIZE		MAX. LOAD		TYPICAL MODELS CARRIED
				T-TAKE OFF W-WAR EMERG. M-MILITARY C-CONTINUOUS	W					M	C	TYPE OR LOCATION ALSO (MAX OIL)	NO AND CAPACITY ALSO (MAX FUEL)	NO. GUNS AND SIZE	RDS PER GUN			
OA-10A-VI (PRY-5A)		Z	PRATT-WHITNEY R-1830-92 SINGLE STD. -1 SPD. HAMILTON STD. 12" DIA. -3 BL. F.F., HYDROMATIC	T 1200/ 5 L W NONE M 1200/ 5000 C 1050/ 7000	S 104' 0" L 83' 10" H 20' 1" T 18' 5" W 1900 Sq. Ft.	B 21000 C 34000 W - M -		5 10 8	WING CENTER SECTION (120)	2 x 875 or 2 x 622 or 1 x 875 1 x 622 (SEE A)	1-30 1-30 2-50	1000 500 500	NOV - FLEX. TUNNEL - FLEX. WAIST - FLEX.	NONE	2-2000 T 2-2000 4-1000 4-500 8-325 12-100	4000	90-9 RU-19 ATS ARS DW-1 JA TM-10 AS4 ASD ASX ASU	OA-10A TECH. ORDER 01-SMA-1 (REV. 20 JANUARY 1945) U.S. NAVY TYPES. (a) THE WING CENTER SECTION CONTAINS TWO INTEGRALLY BUILT SEALED CHAMBERS WITH A TOTAL USABLE FUEL CAPACITY OF 1750 U. S. GALLONS. (1457 IMPERIAL GALLONS). PROVISION IS MADE FOR INSTALLATION OF SELF-SEALING CELLS IN EITHER OR BOTH OF THE TWO CHAMBERS. WHEN CELLS ARE INSTALLED ON ONE SIDE, THE MAXIMUM CAPACITY OF THE CELLS PLUS THE REMAINING INTEGRAL TANK IS 1497 U.S. GALLONS. (1242.5 IMPERIAL GALLONS). WHEN CELLS ARE INSTALLED IN BOTH TANKS, THE MAXIMUM CAPACITY (WATER-BOUY) IS 1244 U.S. GALLONS. (1032.5 IMPERIAL GALLONS).
COLUMN	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

MODEL & BLOCK-NO.	TAKE OFF & LANDING HARD SURFACE-NO WIND						HIGH SPEED & CLIMB CLEAN AIRPLANE AT NORMAL COMBAT WEIGHT						RANGE AND ENDURANCE STATUTE AIR MILES-NO WIND- NO ALLOWANCE FOR RESERVE										REMARKS						
	TO CLEAR 50'			GROUND RUN			GROSS WEIGHT	STD. ALT.	WAR EMERG.		MIL. POWER		MAX. CONTIN. POWER		LOADING			MAX. CONTINUOUS POWER		MAX. CRUISE POWER		LONG RANGE							
	T.O. DIST.	LAND DIST.	LANDING SPEED	T.O. DIST.	LAND DIST.	HIGH SPEED			RATE OF CLIMB	HIGH SPEED	RATE OF CLIMB	HIGH SPEED	RATE OF CLIMB	TIME TO CLIMB	TAKE OFF WEIGHT	BOMBS CARGO PASS.	TOTAL FUEL	at SEA LEVEL	at 10000FT.	at SEA LEVEL	at 10000FT.	at 10000FT.		RANGE	ENDUR.	RANGE	ENDUR.	RANGE	ENDUR.
OA-10A-VI (PRY-5A)	DATA UNAVAILABLE						34000	15000 10000 5000 S L	NOT APPLICABLE		-		-		176	325	19.3	24000	NONE	1463	NO DATA	1000	6.5	NO DATA	1700	12.7	2550	21.7	(b) PERFORMANCE BASED ON NAVY DATA USING 1463 GAL.
19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48

NOTES:

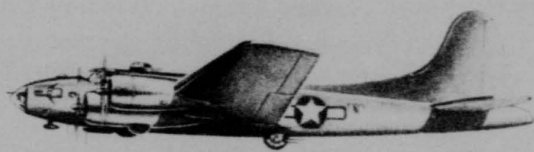


OA-10A

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**GLIDER AND
TOWPLANE SECTION**

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FOREWORD

WARNING

THESE CHARTS CONTAIN CONSERVATIVE AVERAGES FOR TACTICAL PLANNING AND ARE NOT SUITABLE FOR AERODYNAMIC ANALYSIS.

Data contained herein are not to be considered guaranteed performance nor optimum performance as established by test flight but are to be considered official "Practical" characteristics and performance to be used for planning purposes for the average pilot.

All data includes service allowances based on theater experience. Individual towplanes may vary appreciably due to age and service changes. Data printed in red are preliminary and subject to revision after flight check. Data printed in black have been derived from information obtained in flight but are not actual flight test results. For detailed planning see Technical Orders listed as references.

RANGE and ENDURANCE are based on the following assumptions:

- (a) Allowance for warm up, taxi, run up, take off, and landing. (equal to ten minutes max. contin. at S.L.)
- (b) Allowances for fuel consumed in climb. Distance and time to climb are included in range and endurance.
- (c) Allowance for carrying bombs and droppable tanks entire flight.
- (d) Allowance of 10% net ideal range and endurance for miscellaneous differences in airplanes, equipment, pilot technique, atmospheric conditions other than wind, unusable fuel, weight and similar variables. (For example, range varies day and night due to fuel expansion prior to take off.)
- (e) Other than the above, no allowances for wind, assured reserve, combat, nor formation flight.

TYPE OF RELEASE: A number of combinations shown are not eligible for clear releases, for complete information on release characteristics see T.O. 01-1-143, dated 5 Mar. 1945.

RED PRINT: Preliminary estimates or calculated data.

RESTRICTED

DEFINITIONS

PAGE 46
AS OF:
28 JULY 1945

LOADING:	Typical loadings of glider and towplane for tactical missions.
Note:	Weight and fuel quantities shown apply to all performances values to the right on the same line.
Max. tow speed:	Maximum permissible calibrated indicated air speed for towing glider at weight shown.
TAKE OFF: (AT S.L.) (To clear 50' object)	Distances representative of minimum airport requirements. (No allowance made for tow rope glider length).
Take off speed:	Normal for average pilot. (Towplane I.A.S)
Ground run:	Distances representative of minimum runway requirements. (No allowance made for tow rope glider length).
CLIMB (I.A.S. for climb)	Minimum towplane indicated air speed for good control & satisfactory engine cooling.
Initial rate of climb:	Sea level rate of climb at minimum towplane indicated air speed.
Note:	For some combinations rate of climb tends to increase up to critical altitude of towplane.
Service ceiling:	Altitude at which rate of climb is 100'/min.
Time to service ceiling:	Time to climb in minutes from sea level to service ceiling based on I.A.S. for climb.
RANGE & ENDURANCE:	(See discussion under foreword)
Radius of action:	Distance glider can be towed and released with towplane having enough fuel to return to base alone.
Time out:	Time from take off to release of glider, (At recommended cruising altitude).
Time back:	Time required for towplane to return to base alone at recommended cruising speed and altitude.
Max. range & endurance:	Practical maximum range which glider can be towed under conditions set forth and corresponding time required.

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TOWPLANE & GLIDER TACTICAL PLANNING PERFORMANCE CHART																				
BOMBER TOWPLANE AND CG-4A GLIDER																				
TOWPLANE & GLIDER COMBINATION	LOADING						TAKE OFF (WITH GLIDER ATTACHED) S.L.-HARD SURFACE-NO WIND			CLIMB (AT MINIMUM TOW SPEED)				RANGE & ENDURANCE MAXIMUM STATUTE AIR MILES-NO WIND-NO RESERVE						REMARKS
	GLIDERS		TOWPLANE				TO CLEAR 50' OBJ. DISTANCE (FT.)	TAKE OFF SPEED I.A.S.	GROUND RUN DISTANCE (FT.)	I.A.S. FOR CLIMB (M.P.H.)	INITIAL RATE OF CLIMB (FT./MIN.)	SERVICE CEILING (FT.)	TIME TO SERVCE CEL. (MIN.)	RADIUS OF ACTION (GLIDER RELEASED AT RADIUS)			RECOMM CRUISING ALTITUDE (FT.)	MAX. RANGE (WITH GLIDER)		
	TAKE-OFF WEIGHT (LB.)	CARGO OR PASS. (LB.)	TAKE-OFF WEIGHT (LB.)	BOMBS CARGO OR PASS. (LB.)	FUEL (U.S. GAL.)	MAX. TOW SPEED (M.P.H.)								RADIUS (MI.)	TIME OUT (HRS.)	TIME BACK (HRS.)		RANGE (MI.)	ENDUR. (HRS.)	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	
B-17F & (1) CG-4A	7500	3800	59100	NONE	2780	150	6000	110	4000	135	300	12000*	37	(990)	6.8	6.0	5000	1580	9.1	* LIMITED- NO OXYGEN IN GLIDER
														(980)	6.3	5.5	10000	1370	8.8	
B-17F & (2) CG-4A	7500	3800	52500	NONE	1700	150	7500	110	3750	135	300	11000	57	510	3.4	3.1	5000	720	4.8	NOTE: THE 59100 LB. LOADING WITH (2) GLIDERS IS FOR EMERGENCY RE- LEASE ONLY.
	7500	3800	59100	NONE	2780	150	6000	110	4300	135	240	8000	144	860	6.0	5.2	5000	1140	7.9	
B-24D & (1) CG-4A	7500	3800	52500	NONE	2344	150	3750	115	3000	140	530	12000*	24	(870)	5.7	4.7	5000	1360	6.8	* LIMITED- NO OXYGEN IN GLIDER
	7500	3800	59000	6000	2344	150	6000	115	3650	140	325	12000*	111	(850)	5.6	4.1	10000	1280	7.8	
B-25C & (1) CG-4A	7500	3800	30000	2000	972	150	2500	120	3700	140	390	12000*	38	540	3.4	3.0	5000	700	3.8	* LIMITED- NO OXYGEN IN GLIDER NOTE: LOADINGS SHOWN ARE FOR PRO- VISIONAL RELEASE ONLY.

NOTES:

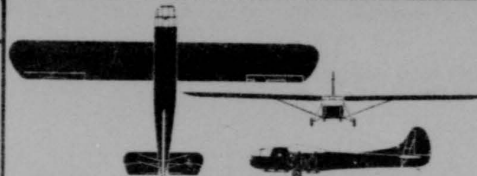
- (1) REFERENCE MATERIAL FROM TECHNICAL ORDER 01-1-113 dated 5 MARCH 1945
- (2) ALL PERFORMANCE SHOWN WITH GLIDER TRAINING GEAR ATTACHED.

RED FIGURES ARE PRELIMINARY; SUBJECT TO
REVISION AFTER FLIGHT CHECK.

TEMPORARY TOW RELEASE MECHANISM ON B-17F CAN BE
INSTALLED QUICKLY WITH NO STRUCTURAL MODIFICATIONS REQUIRED.

TOW PLANE PERFORMANCE WITH CG-4A TO
BE SAME AS WITH CG-1A.

GLIDER CHARACTERISTICS

WEIGHT		SIZE
B-BASIC		S-SPAN
C-COMBAT		L-LENGTH
W-WAR MAX	H-HEIGHT	T-TREAD
	W-WING AREA	
	TYPICAL GLIDER CAPACITIES	
B- (3700 to 4500)	(a) TROOP CARRIER: CREW(2) & TROOPS(13).	S- 85'6"
C- 7500	(b) CARGO CARRIER: CREW(2) & TROOPS(4) & JEEP CAR(1).	L- 141'4"
W- 9000	(c) CARGO CARRIER: CREW(2) & TROOPS(3) & 75MM. HOWITZER(1) & 75MM. AMMUNITION(18 RES.)	H- 12'7"
		T- 9'4"
		W- (Tab. gear) 852 SQ. FT.

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TOWPLANE & GLIDER TACTICAL PLANNING PERFORMANCE CHART

PAGE NO.
AS OF:
28 JULY 1945

CARGO TOWPLANE AND CG-4A GLIDER

TOWPLANE & GLIDER COMBINATION	LOADING						TAKE OFF (WITH GLIDER ATTACHED) S.L.-HARD SURFACE-NO WIND			CLIMB (AT MINIMUM TOW SPEED)				RANGE & ENDURANCE MAXIMUM STATUTE AIR MILES-NO WIND-NO RESERVE						REMARKS
	GLIDERS		TOWPLANE				TO CLEAR 50' OBJ. DISTANCE (FT.)	TAKE OFF SPEED I.A.S.	GROUND RUN DISTANCE (FT.)	I.A.S. FOR CLIMB (M.P.H.)	INITIAL RATE OF CLIMB (FT./MIN.)	SERVICE CEILING (FT.)	TIME TO SERVCE CEL. (MIN.)	RADIUS OF ACTION (GLIDER RELEASED AT RADIUS)			RECOMM CRUISING ALTITUDE (FT.)	MAX RANGE (WITH GLIDER)		
	TAKE-OFF WEIGHT (LB.)	CARGO OR PASS (LB.)	TAKE-OFF WEIGHT (LB.)	BOMBS CARGO OR PASS. (LB.)	FUEL (U.S. GAL.)	MAX. TOW SPEED (M.P.H.)								RADIUS (MI.)	TIME OUT (HRS.)	TIME BACK (HRS.)		RANGE (MI.)	ENDUR. (HRS.)	
C-46A & (1)CG-4A	7500	3800	41000	NONE	1100	150	2900	85	2150	120	640	12000*	22	770	5.2	4.7	5000	1255	8.5	* LIMITED - NO OXYGEN IN GLIDER.
	7500	3800	46000	5000	1100	150	3950	90	2900	120	490	12000*	30	715	5.3	4.3	5000	1115	8.2	
C-46A & (2)CG-4A	7500	3600	41000	NONE	1100	150	4100	85	2950	120	330	12000*	50	605	4.5	3.7	5000	850	6.3	* LIMITED- NO OXYGEN IN GLIDER. NOTES: THE 46000 LB. LOADING WITH (2) GLIDERS IS FOR EMERGENCY RELEASE ONLY.
	7500	3300	46000	5000	1100	150	6200	90	4200	120	240	8700	43	555	4.1	3.4	5000	755	5.7	
C-47, 47A & 53 (PADDLE BLADE PROPS.) & (1)CG-4A	7500	3800	26000	3000	804	150	4150	80	2550	105	515	12000*	31	575	4.8	3.6	5000	955	7.9	* LIMITED- NO OXYGEN IN GLIDER.
	7500	3400	29000	6000	804	150	4900	85	2750	105	440	11300	37	545	4.6	3.4	5000	870	7.3	
	7500	3800	31000	8000	804	150	5450	85	2950	105	350	10400	39	520	4.4	3.1	5000	820	6.9	
C-47, 47A & 53 (PADDLE BLADE PROPS.) & (1) CG-4A (TOWPLANE EQUIPPED WITH PARA-PACK RACKS)	7500	3800	26000	3000	804	150	4280	80	2650	105	455	11800	35	525	4.4	3.6	5000	870	7.3	
	7500	3800	29000	6000	804	150	5550	80	2900	105	370	10600	38	485	4.1	3.4	5000	830	6.9	
C-47, 47A & 53 (PADDLE BLADE PROPS.) & (2) CG-4A	7500	3800	24200y	1200	804	150	5700	80	3050	105	220	7600	46	450	4.0	2.8	2000	665	5.8	LOADINGS SHOWN ARE FOR EMERGENCY RELEASE ONLY.
	7500	3800	26000y	3000	804	150	6780	80	3250	105	180	7300	50	435	3.8	2.7	2000	630	5.5	

NOTES:

- (1) REFERENCE MATERIAL FROM TECHNICAL ORDER 01-1-113 dated 5 MARCH 1945
(2) ALL PERFORMANCE SHOWN WITH GLIDER TRAINING GEAR ATTACHED.

TOW PLANE PERFORMANCE WITH CG-4A TO
BE SAME AS WITH CG-4A

GLIDER CHARACTERISTICS

WEIGHT

B - BASIC
C - COMBAT
W - WAR MAX.

B - (3700^{oo}
16500)
C - 7500
W - 9000



SIZE

S - SPAN
L - LENGTH
H - HEIGHT
T - TREAD
W - WING AREA

TYPICAL GLIDER CAPACITIES

- (a) TROOP CARRIER: CREW(2) & TROOPS(13).
(b) CARGO CARRIER: CREW(2) & TROOPS(4) & JEEP CAR(1).
(c) CARGO CARRIER: CREW(2) & TROOPS(3) & 75MM.
HOWITZER(1) & 75MM. AMMUNITION(18 DIS.)

S - 83'8"
L - 48'4"
H - 12'7"
T - 9'4"
W (Tact. gear)
852 Sq.

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TOWPLANE & GLIDER TACTICAL PLANNING PERFORMANCE CHART

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FIGHTER TOWPLANE AND CG-4A GLIDER

TOWPLANE & GLIDER COMBINATION	LOADING						TAKE OFF (WITH GLIDER ATTACHED) SL-HARD SURFACE-NO WIND			CLIMB (AT MINIMUM TOW SPEED)				RANGE & ENDURANCE MAXIMUM STATUTE AIR MILES-NO WIND-NO RESERVE					REMARKS	
	GLIDERS		TOWPLANE				TO CLEAR 50' OBJ. DISTANCE (FT.)	TAKE OFF SPEED I.A.S.	GROUND RUN DISTANCE (FT.)	I.A.S. FOR CLIMB (M.P.H.)	INITIAL RATE OF CLIMB (FT/MIN)	SERVICE CEILING (FT.)	TIME TO SERVCE CEIL. (MIN)	RADIUS OF ACTION (GLIDER RELEASED AT RADIUS)			RECOMM CRUISING ALTITUDE (FT.)	MAX. RANGE (WITH GLIDER)		
	TAKE-OFF WEIGHT (LB.)	CARGO OR PASS. (LB.)	TAKE-OFF WEIGHT (LB.)	BOMBS CARGO OR PASS. (LB.)	FUEL (US GAL)	MAX. TOW SPEED (M.P.H.)								RADIUS (MI.)	TIME OUT (HRS)	TIME BACK (HRS)		RANGE (MI.)		ENDUR. (HRS)
	P-38G & (1) CG-4A	7500	3800	15500	NONE	300	150	3500	100	2750	120	1000	12000*	15	270	1.9	1.4	5000		400

COLUMN— 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21

NOTES:
(1) REFERENCE MATERIAL FROM TECHNICAL ORDER 01-1-143 dated 5 MARCH 1945
(2) ALL PERFORMANCE SHOWN WITH GLIDER TRAINING GEAR ATTACHED.

MINIMUM OF 200 LB. BALLAST IS REQUIRED IN NOSE OF
P-38G WHEN NO AMMUNITION IS CARRIED.
TOW PLANE PERFORMANCE WITH CG-4A TO
BE SAME AS WITH CG-1A.

GLIDER CHARACTERISTICS

WEIGHT		SIZE
B-BASIC		S-SPAN
C-COMBAT		L-LENGTH
W-WAR MAX		H-HEIGHT
		T-TREAD
		W-WING AREA
TYPICAL GLIDER CAPACITIES		
B- (3700 to 4500)		S- 83'8"
C- 7500	(a) TROOP CARRIER: CREW(2) & TROOPS(13).	L- 48'4"
W- 9000	(b) CARGO CARRIER: CREW(2) & TROOPS(4) & JEEP CAR(1).	H- 12'7"
	(c) CARGO CARRIER: CREW(2) & TROOPS(3) & 75MM. HOWITZER(1) & 75MM. AMMUNITION(18 RIG.)	T- 9'1"
		W. (Tact. gear) 852 SQ. FT.

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TOWPLANE & GLIDER TACTICAL PLANNING PERFORMANCE CHART

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AS OF:
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CARGO TOWPLANE AND CG-13A GLIDER

TOWPLANE & GLIDER COMBINATION	LOADING						TAKE OFF (WITH GLIDER ATTACHED) SL-HARD SURFACE-NO WIND			CLIMB (AT MINIMUM TOW SPEED)				RANGE & ENDURANCE MAXIMUM STATUTE AIR MILES-NO WIND-NO RESERVE						REMARKS
	GLIDERS		TOWPLANE				TO CLEAR 50' OBJ. DISTANCE (FT.)	TAKE OFF SPEED I.A.S.	GROUND RUN DISTANCE (FT.)	I.A.S. FOR CLIMB (M.P.H.)	INITIAL RATE OF CLIMB (FT./MIN.)	SERVICE CEILING (FT.)	TIME TO SERVCE CEIL. (MIN.)	RADIUS OF ACTION (GLIDER RELEASED AT RADIUS)			RECOMM. CRUISING ALTITUDE (FT.)	MAX. RANGE (WITH GLIDER)		
	TAKE-OFF WEIGHT (LB.)	CARGO OR PASS. (LB.)	TAKE-OFF WEIGHT (LB.)	BOMBS CARGO OR PASS. (LB.)	FUEL (U.S. GAL.)	MAX. TOW SPEED (M.P.H.)								RADIUS (MI.)	TIME OUT (HRS.)	TIME BACK (HRS.)		RANGE (MI.)	ENDUR. (HRS.)	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	
C-47,47A & 53 PADDLE BLADE PROPS & (1) CG-13A	10000	1300	24200	1200	804	195	4100	85	2600	105	460	12000*	36	555	4.8	3.6	2000	855	7.4	* LIMITED - NO OXYGEN IN GLIDER. / LOADING OF 17700 LB. IS FOR EMERGENCY RELEASE ONLY.
	15700	7000	24200	1200	804	195	5150	90	3100	105	300	9500	41	485	4.2	3.2	2000	725	6.3	
	17700#	9000	24200	1200	804	195	5850	90	3350	105	215	8500	45	460	4.0	3.0	2000	675	5.9	
C-46A & (1) CG-13A	10000	1300	41000	NONE	1140	195	3950	85	2750	120	465	12000*	29	700	5.2	4.2	5000	1095	8.1	* LIMITED - NO OXYGEN IN GLIDER.
	18900	10200	41000	NONE	1140	195	4650	90	3250	120	320	12000*	45	610	4.6	3.7	5000	895	6.7	

NOTES:

- (1) REFERENCE MATERIAL FROM TECHNICAL ORDER 01-1-113 dated 5 MARCH 1945 (A) TYPICAL GLIDER CONDITIONS
- (2) ALL PERFORMANCE SHOWN WITH GLIDER TRAINING GEAR ATTACHED.
- ATTENTION: WEIGHT OF GLIDER MAY BE LIMITED BY TOWPLANE PERFORMANCE; SEE T.O. 01-1-113 DEC. 1944 FOR ALLOWABLE GLIDER WEIGHT WITH CORRESPONDING TOWPLANE.

- (a) JEEPS (2) & TROOPS (8) & CREW (2)
- (b) JEEP (1) & TROOPS (6) & CREW (2) & 75mm. HOWITZER (1) & AMMUNITION (156 RDS.)
- (c) TROOPS (8) & CREW (2) & 75mm. HOWITZER (2) & AMMUNITION (165 RDS.)
- (d) TROOPS (8) & CREW (2) & STD. 105mm. HOWITZER (1) (M-2) & AMMUNITION (63 RDS.)
- (e) TROOPS (40) & CREW (2) & AERIAL DELIVERY CONTAINERS (4)
- (f) WEAPONS CARRIER, 6x6, 1 1/2 TON (1) & CREW (2)
- (g) JEEP (1) & TROOPS (6) & CREW (2) & 105mm. HOWITZER (1) & AMMUNITION (27 RDS.)

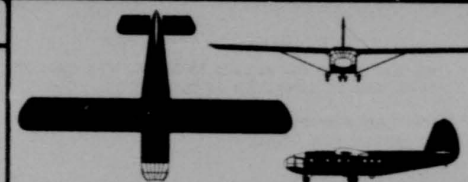
GLIDER CHARACTERISTICS

WEIGHT

B - BASIC

C - COMBAT

W - WAR MAX.



SIZE

S - SPAN

L - LENGTH

H - HEIGHT

T - TREAD

W - WING AREA

TYPICAL GLIDER CAPACITIES

B - 8700

C - 18900

W - 18900

SEE NOTE "A" AT LEFT

S - 85' 7"

L - 54' 3"

H - 20' 3"

T - 9' 11"

W - 873 sq.

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TOWPLANE & GLIDER TACTICAL PLANNING PERFORMANCE CHART

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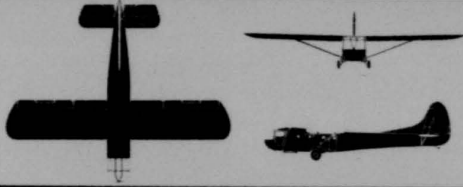
CARGO TOWPLANE AND CG-15A GLIDER

TOWPLANE & GLIDER COMBINATION	LOADING						TAKE OFF (WITH GLIDER ATTACHED) S.L.-HARD SURFACE-NO WIND			CLIMB (AT MINIMUM TOW SPEED)				RANGE & ENDURANCE MAXIMUM STATUTE AIR MILES-NO WIND-NO RESERVE						REMARKS
	GLIDERS		TOWPLANE				TO CLEAR 50' OBJ. DISTANCE (FT.)	TAKE OFF SPEED (I.A.S.)	GROUND RUN DISTANCE (FT.)	I.A.S. FOR CLIMB (M.P.H.)	INITIAL RATE OF CLIMB (FT./MIN)	SERVICE CEILING (FT.)	TIME TO SERVCE CEIL. (MIN)	RADIUS OF ACTION (GLIDER RELEASED AT RADIUS)			RECOMM CRUISING ALTITUDE (FT.)	MAX. RANGE (WITH GLIDER)		
	TAKE-OFF WEIGHT (LB.)	CARGO OR PASS. (LB.)	TAKE-OFF WEIGHT (LB.)	BOMBS CARGO OR PASS. (LB.)	FUEL (U.S. GAL)	MAX. TOW SPEED (M.P.H.)								RADIUS (MI.)	TIME OUT (HRS.)	TIME BACK (HRS.)		RANGE (MI.)	ENDUR. (HRS.)	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	
C-47 47A&53 MIDDLE BLADE PROPS & (I) CG-15A	8000	3950	26000	3000	804	180	4200	80	2700	105	485	*12000	37	555	4.4	3.8	5000	850	6.8	* LIMITED - NO OXYGEN IN GLIDER.
	8000	3950	29000	6000	804	180	5150	85	3200	105	365	10500	45	520	4.2	3.5	5000	775	6.2	
	8000	3950	31000	8000	804	180	5700	85	3600	105	320	9500	45	490	3.9	3.3	5000	720	5.7	
C-46A & (I) CG-15A	8000	3950	41000	NONE	1100	180	3100	85	2400	120	620	12000*	25	755	5.3	4.6	5000	1215	8.4	* LIMITED - NO OXYGEN IN GLIDER.
	8000	3950	46000	5000	1100	180	4550	90	3200	120	480	12000*	30	715	5.3	4.3	5000	1115	8.3	

NOTES:

- (1) REFERENCE MATERIAL FROM TECHNICAL ORDER 01-1-143, DATED 5 MARCH 1945
- (2) ALL PERFORMANCE SHOWN WITH GLIDER TRAINING GEAR ATTACHED.

GLIDER CHARACTERISTICS

WEIGHT		SIZE
B- BASIC		S- SPAN
C- COMBAT		L- LENGTH
W- WAR MAX		H- HEIGHT
		T- TREAD
		W- WING AREA
TYPICAL GLIDER CAPACITIES		S- 62'3"
B- 4050		L- 48'9"
C- 8000		H- 12'7"
W- 9000	(a) TROOP CARRIER: CREW(2) & TROOPS(13). (b) CARGO CARRIER: CREW(2) & TROOPS(4) & JEEP CAR(1). (c) CARGO CARRIER: CREW(2) & TROOPS(3) & 75MM. HOWITZER(1) & 75MM. AMMUNITION(18 RUG.)	T- -
		W- 556 SQ. FT.

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