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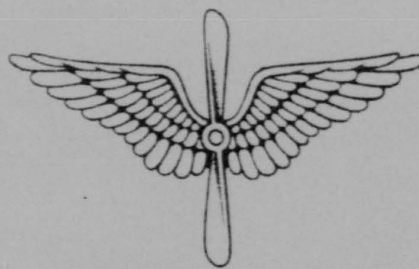
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EE-306-2
EXPERIMENTAL

QUARTERLY CHART AIRPLANE CHARACTERISTICS AND PERFORMANCE



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PUBLISHED BY AUTHORITY OF THE COMMANDING GENERAL, ARMY AIR FORCES,
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WRIGHT FIELD, DAYTON, OHIO.

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REF ID: A66544
PREFACE SHEET

EE-306-2

QUARTERLY CHART OF EXPERIMENTAL AIRPLANE CHARACTERISTICS AND PERFORMANCE

Characteristics and Performance data shown are manufacturer's guarantees as listed in the model specification except where official performance tests have been completed and thus indicated by a letter "C".

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

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

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

ARMAMENT: Installations for design gross weight.

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

THIS REPORT SUPERSEDES PREVIOUS EE-306-2 PUBLICATIONS; SUPERSEDED PUBLICATIONS, IF NO LONGER OFFICIALLY REQUIRED, WILL BE DESTROYED IN THE MANNER PRESCRIBED IN A.R. 308-5.

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PAGE 1

CONFIDENTIAL AIRPLANE CHARACTERISTICS & PERFORMANCE

HEAVY BOMBARDMENT

DATE: 1 January 1945

MODEL & MFR. ENGINE CONT. NO. PLANES	ENG. RATINGS NORMAL/ALT. MIL./CRIT. ALT. TAKE-OFF/S.L.	SPEEDS HIGH/ALT./H.P. LANDING	CLIMB TIME TO/FT. SERV. CEIL. CEIL.-1/2 ENGS. OUT	T. O. & LAND T. O. OVER 50' OBS. LAND OVER 50' OBS.	RANGE with @ SPEEDS % POWER		FUEL with BOMBS at		WEIGHTS		DIMENSIONS SPAN LENGTH WING AREA	ARMAMENT NO. OF GUNS -CAL.-BDS. OF AMM. PER GUN	COMBAT PROT. TYPE	REFERENCE
					MAXIMUM DESIGN (WITH MAX. BOMBS)	MAXIMUM DESIGN (WITH MAX. BOMBS)	NONE DESIGN MAXIMUM	WT. EMPTY WEIGHT DESIGN GROSS WEIGHT						
XB-19A GENERAL MOTORS (4) V-3420-11 AC-33362 1	2100/40000 2600/40000 2600/ S.L.	265/25000/10496	- 39000	3600	- 4240/185/ -	- 6400	2400	92397	212'0" 132'2" 4285 Sq. Ft.	6-.30-600 5-.50-200 2-37mm-50'	NONE	Spec. X-85. Formerly the XB-19, Re- designated XB-19A.		
XB-29 BOEING (4) R-3350-13 AC-15429 3	2000/25000 2200/25000 2200/ S.L.	368/25000/8800	27/25000 32100 9430 -	4191	5850/250/ 52% 4524/250/ 48% 3500/247/ 52%	7494 5155 4587	NONE 2000 20000	66121 120000 105000 120000	141'3" 98'2" 1739 Sq. Ft.	10-.50-500	ARMOR L.P. TANKS	Spec. D-2651-C (Pressure Cabin) D-3104 App. F		
XB-32 CONSOL. (4) R-3350-13 AC-15549 3	2000/25000 2200/25000 2200/ S.L.	376/25000/8800	22.6/25000 30700 16500	4000	4850/250/ 45% 4454/250/ 45% 1610/250/ 45%	4974 4591 1775	NONE 2000 20000	64961 101662 101662 101662	135'0" 83'0" 1422 Sq. Ft.	14-.50-500	ARMOR L.P. TANKS	Spec. D-33- 001-C.		
XB-35 WORTHROP (4) R-4360 AC-21920 2	2500/40000 3000/40000 3000/ S.L.	386/35000/12000	- 39000 16000*	5730	*8450/275/ - *5230/275/ - *2820/275/ -	10023 8356	NONE 10000 51200	80977 180000 150000 180000	172'0" 51'0" 4000 Sq. Ft.	2-.50-1000 8-.50-600 8-.50-1000	ARMOR L.P. TANKS	Spec. 88-9		
XB-36 CONSOL. (6) R-4360-5 AC-22352 2	2500/40000 3000/35000 3000/ S.L.	372/35000/18000	56/30000 34500 17500	5200	11400/ - / - 10000/ - / - 4700/ - / -	21116 19245 9450	NONE 10000 72000	128826 265000 269039 269039	230'0" 163'0" 4772 Sq. Ft.	4-37mm-100 1-37mm-300 10-.50-1000	ARMOR L.P. TANKS	Spec. D-35- 001A.		
XB-39 GENERAL MOTORS (4) V-3420-11 AC-27331 1	2100/40000 2600/40000 2600/ S.L.	388/25000/10400	26.5/25000 39000 11500	4250	*5700/353/ - *4800/250/ - *3100/253/ -	6857 5174 3787	NONE 2000 20000	71177 120000 110297 120000	141'3" 98'2" 1739 Sq. Ft.	10-.50-500	ARMOR L.P. TANKS	Spec. X-15 Report A-90 App. 1 & 2		
XB-42 DOUGLAS (2) V-1710-103 AC-40188 2	1050/20000 1200/22400 1325/ S.L.	419/25700/2400	45/25000 27000 20000	6300	5700/240/ - 2090/238/ -	1750 650	NONE 8000	21812 36240 33000	70'6" 53'8" 555 Sq. Ft.	2-.50-500 4-.50-350' (NORMAL)	ARMOR L.P. TANKS B.P. GLASS	Spec. 05- 459.		

NOTES:
AC—AIR CORPS
DA—DEFENSE AID
PO—PURCHASE ORDER

* ESTIMATE

A—ACCEPTANCE PERFORMANCE TEST RUN AT FACTORY

B—OFFICIAL PERFORMANCE REPORT NO.

C—PRELIMINARY FLIGHT TEST

X-2296

Prepared by: Technical Data Laboratory, Engineering Division

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PAGE: 2

CONFIDENTIAL AIRPLANE CHARACTERISTICS & PERFORMANCE

LIGHT BOMBARDMENT

DATE: 1 January 1945

MODEL & MFR. ENGINE CONT. NO. PLANES	ENG. RATINGS NORMAL/ALT. MIL./CRIT. ALT. TAKE-OFF/S. L.	SPEEDS HIGH/ALT./H.P. LANDING	CLIMB TIME TO/FT. SERV. CEIL. CEIL.-1/2 ENGS. OUT	T. O. & LAND T. O. OVER 50° OBS. LAND OVER 30° OBS.	RANGE with FUEL with BOMBS at WEIGHTS			DIMENSIONS SPAN LENGTH WING AREA	ARMAMENT NO. OF GUNS -CAL.-RDS. OF AMM. PER GUN	COMBAT PROT. TYPE	REFERENCE	
					MAXIMUM NORMAL (WITH MAX. BOMBS)	MAXIMUM NORMAL (WITH MAX. BOMBS)	NONE NORMAL MAXIMUM					WT. EMPTY WEIGHT DESIGN GROSS WEIGHT
XA-26 DOUGLAS (2) R-2800-27 AC-17946 1	1600/5700 * 1600/13500 2000/ S. L.	371/17000/2920 100	10.2/20000 31300 17000	1840 2270	1977/202/ - 810/280/ 63% 1415/212/ -	1000 440 800	NONE 1200 4000	21150 29370 A 26700 31880	70'0" 51'2" 540 Sq. Ft.	2-.50-400 2-.50-500 2-.50-500	ARMOR L.P. TANKS B.P. GLASS	Spec. 538
XA-26A DOUGLAS (2) R-2800-27 AC-17946 1	1450/13000 * 1600/13500 2000/ S. L.	365/17000/3200 -	10.5/20000 25900 12600	1894 2172	** 1420/234/ 50% ** 700/264/ 63% NONE	800 440 NONE	NONE	20794 28893 25300 NONE	70'0" 52'5" 540 Sq. Ft.	4-20mm-150 4-.50-700	ARMOR L.P. TANKS B.P. GLASS	Spec. 541 (NIGHT FIGHTER)
XA-26B DOUGLAS (2) R-2800-27 AC-17946 1	1450/13000 * 1600/13500 2000/ S. L.	359/16000/3200 -	- 25700 15500	1945 2192	1260/ - / - 695/ - / 63% NONE	800 440 NONE	NONE	20225 28855 26000 NONE	70'0" 50'1" 540 Sq. Ft.	4-.50-500 1-75mm-20	ARMOR L.P. TANKS B.P. GLASS	Spec. 542. (DESTROYER TYPE)
XA-32 BREWSTER (1) R-2800-37 AC-21434 1	1450/15000 * 1600/13500 2000/ S. L.	311/13200/1520 75	5.74/10000 26000 NONE	1295 1300	1600/200/ - 600/196/ - -	530 200 200	NONE NONE 4000	11819 17772 15512 19960	45'1" 40'1" 425 Sq. Ft.	6-.50-400 4-20mm-120	ARMOR L.P. TANKS B.P. GLASS	Spec. EP- 41
XA-32A BREWSTER (1) R-2800-37 AC-21434 1	1450/15000 * 1600/13500 2000/ S. L.	311/13200/1520 75	5.74/10000 26000 NONE	1295 1300	- / - / - 600/196/ - -	530 200 200	NONE NONE 4000	11819 17772 15512 19960	45'1" 40'1" 425 Sq. Ft.	4-37mm-30	ARMOR L.P. TANKS B.P. GLASS	Spec. EP- 41
XA-38 BEECH (2) R-3350-43 AC-33348 2	2100/ 2500 2250/14000 2300/ S. L. we 2790/ 3100	376/3100/5580 103	6.4/14000 27800 12400	2120 2845	2350/195/ - 1250/170/ - 1420/168/ -	1425 620 825	NONE NONE 2000	22480 36280 29900 33965	67'4" 51'9" 626 Sq. Ft.	1-75mm-20 6-.50-500	ARMOR L.P. TANKS B.P. GLASS	Spec. 550 Rev. 7-23-43
XA-41 VULTEE (1) XR-4360-9 AC-34942 2	2500/5000 3000/1500 3000/ S. L.	353/15500/2400 87	4.3/10000 27000 NONE	1450 1525	3000/180/ 37% 800/270/ -	1140 350 445	NONE 1059 3200	13400 23262 18800 23359	54'0" 48'8" 540 Sq. Ft.	4-.50-400 2-37mm-30	ARMOR L.P. TANKS B.P. GLASS	Spec. 610-C

NOTES:

AC—AIR CORPS
DA—DEFENSE AID
PO—PURCHASE ORDER

* MILITARY RATING FOR 15 MINUTES.
** ESTIMATE
*** FLIGHT TEST - Eng-19-1629-A.
§ FLIGHT TESTS REPORT NO. TSCFSE-1811 DATED 15 NOV. 1944

A—ACCEPTANCE PERFORMANCE TEST RUN AT FACTORY

B—OFFICIAL PERFORMANCE REPORT NO.

C—PRELIMINARY FLIGHT TEST

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FIGHTER
CONFIDENTIAL AIRPLANE CHARACTERISTICS & PERFORMANCE

DATE: 1 January 1945

MODEL & MFR. ENGINE CONT. NO. PLANES	ENG. RATINGS NORMAL/ALT. MIL./CRIT. ALT. TAKE-OFF/S. L.	SPEEDS HIGH/ALT./H.P. LANDING	CLIMB TIME TO/FT. SERV. CRIL. CEIL-1/2 ENGRS. OUT	T. O. & LAND T. O. OVER 30' OBS. LAND OVER 30' OBS.	RANGE with FUEL with BOMBS at WEIGHTS			DIMENSIONS SPAN LENGTH WING AREA	ARMAMENT NO. OF GUNS -CAL-EDG. OF AMM. PER GUN	COMBAT PROT. TYPE	REFERENCE	
					MAXIMUM NORMAL (WITH MAX. BOMBS)	MAXIMUM NORMAL (WITH MAX. BOMBS)	NONE NORMAL MAXIMUM					WT. EMPTY WEIGHT DESIGN GROSS WEIGHT
XP-47 J REPUBLIC (1) R-2800-61 AC-39180 1	1700/30000 2100/35000 2100/ S L 2800/30000	506/33500/2800 92	3.3/15000 NONE	1450 2500	2661/ - / - 1224/ - / - NONE	870 270 NONE	NONE	9833 13780 12840 NONE	41'0" 33'3" 300 Sq. Ft.	6-.50-267	ARMOR L.P. TANKS B.P. GLASS	Republic 905 Rev. 8 3-29-48
XP-51 F NORTH AMERICAN (1) V-1650-3 AC-37857 3	950/29500 1110/17500 1480/13700 1400/ S L	466/29000/1335 -	4.25/20000 42500 NONE	1253 1457	2105/279/ - 852/379/75% 630/371/ -	330 105 180	NONE - 1000	5634 8960 7610 9060	37'0" 32'3" 235 Sq. Ft.	4-.50-250	ARMOR L.P. TANKS B.P. GLASS	Spec. 5664 Rev. 4-17-48
XP-51 G NORTH AMERICAN (1) RM143M AC-37857 2	1175/12500 -	495/22800/1850 -	3.42/20000 45700 NONE	1215 1580	1870/315/ - 510/315/ - -	330 180 180	NONE - 1000	5749 8850 7858 8879	37'0" 32'11" 235 Sq. Ft.	4-.50-250	ARMOR L.P. TANKS B.P. GLASS	Spec. 8982 1-1-44
XP-51 J NORTH AMERICAN (1) V-1710-119 AC-37857 2	1100/21000 1425/ S L 1500/ S L 1900/ S L	491/27400/1620 -	3.6/20000 43800 NONE	1098 1595	- -	330 105 180	- -	6030 9140 7550 9000	37'0" 32'11" 235 Sq. Ft.	4-.50-250	ARMOR L.P. TANKS B.P. GLASS	NA 8030 1-1-44
XP-55 CURTISS (1) V-1710-95 AC-29013 3	1000/14000 1125/15500 1275/ S L	390/19300/1100 80	7.1/20000 34600 NONE	1950 1950	1440/ - /600 900/296/ - NONE	210 110 NONE	NONE	5325 7711 6885 NONE	40' 7" 26' 0" 209 Sq. Ft.	4-.50-250	ARMOR L.P. TANKS B.P. GLASS	Spec. 24-2 51 (Rev. "9" 12-24-42)
XP-56 NORTHROP (1) R-2800-29 AC-16021 AC-25060 1	1500/21500 1850/22500 2000/ S L	467/25000/1650 -	7.2/20000 -	1860 2500	462/396/75% 445/396/75% NONE	314 215 NONE	NONE	8699 12143 11350 NONE	42' 7" 23' 7" 307 Sq. Ft.	2-20mm-60 4-.50-300	ARMOR L.P. TANKS	Spec. 2
XP-58 LOCKHEED (2) V-3420-11.-13 AC-15867 1 AC-39212 1	2100/25000 2600/25000 2500/ S L 3000/28000	430/28000/6000 -	15/25000 38500 -	3600 3600	2650/210/48% 1150/274/48% NONE	1700 650 NONE	NONE	31306 43020 38874 NONE	70' 0" 48' 3" 600 Sq. Ft.	4-37mm-25 4-.50-300 1-75mm-20 6-.50-300	ARMOR L.P. TANKS B.P. GLASS	Spec. 1870 (Pressure Cabin) Rev. 4-1-43
XP-51 D NORTHROP (2) R-2800-57 AC-2407 2	1700/40000 2100/40000 2100/ S L 2800/30000	430/30000/5600 84	13.5/30000 43000 -	2000 1600	3000/205/ - -	1846 528 -	- -	23207 39508 29207 -	56' 0" 48' 11" 662 Sq. Ft.	4-20-150 4-.50-400	ARMOR L.P. TANKS B.P. GLASS	Spec. 45- 89 5-5-44
XP-51 E NORTHROP (2) R-2800-85 AC-2407 2	1550/21500 1850/22500 2000/ S L	376/17000/3860 87	13/20000 30000 -	2700 1550	3750/215/ - 2250/220/ - -	2364 1100 -	NONE	21345 40181 31423 -	66' 0" 48' 11" 662 Sq. Ft.	4-20-150 4-.50-300	ARMOR L.P. TANKS B.P. GLASS	Spec. 45- 17 9-20-44
XP-62 CURTISS (1) R-3350-17 AC-19440 2	2100/25000 2250/25000 2300/ S L	448/27000/2250 85	6.6/15000 35700 NONE	2350 2140	1.5 hrs/2100 HP. -	384 245 NONE	NONE	11773 16651 14660 NONE	53' 8" 39' 8" 420 Sq. Ft.	4-20mm-150	ARMOR L.P. TANKS B.P. GLASS	Spec. 5343A (Pressure Cabin)

NOTES:

AC—AIR CORPS
DA—DEFENSE AID
PO—PURCHASE ORDER

we - WAR EMERGENCY
- FLIGHT TEST
** - BASED ON 130 GRADE FUEL
* - CONTRACTOR'S FLIGHT TEST

A—ACCEPTANCE PERFORMANCE TEST RUN AT FACTORY

B—OFFICIAL PERFORMANCE REPORT NO.

C—PRELIMINARY FLIGHT TEST

Prepared by: Technical Data Laboratory, Engineering Division

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AIRPLANE CHARACTERISTICS & PERFORMANCE

DATE: 1 January 1945

MODEL & MFR. ENGINE CONT. NO. PLANES	ENG. RATINGS NORMAL/ALT. MIL./CRIT. ALT. TAKE-OFF/S. L.	SPEEDS HIGH/ALT./H.P. LANDING	CLIMB TIME TO FT. SERV. CEIL. CRUISE - 1/2 ENGS. OUT	T.O. & LAND T.O. OVER 50' OBS. LAND OVER 50' OBS.	RANGE with FUEL with BOMBS at WEIGHTS @ SPEEDS & POWER			DIMENSIONS SPAN LENGTH WING AREA	ARMAMENT NO. OF GUNS -CAL.-RDS. OF AMM. PER GUN	COMBAT PROT. TYPE	REFERENCE	
					MAXIMUM NORMAL (WITH MAX. BOMBS)	MAXIMUM NORMAL (WITH MAX. BOMBS)	NONE NORMAL MAXIMUM					WT. EMPTY WEIGHT DESIGN GROSS WEIGHT
XP-72 REPUBLIC (1) R-4380-13 AC-37879 2	2200/25000 2400/25000 3000/ S L we 3450/ S L	we 490/25000/3000	we 3.5/15000 42000 NONE	- -	1536/315/ - 1300/300/ - -	670 370 370	NONE NONE 2000	11467 17492 15313 17313	49' 1" 36' 7" 342 Sq. Ft.	6-.50-267	ARMOR L.P. TANKS S.P. GLASS	Spec. 507 1/2/43 Rev. 6/21/44
XP-75 FISHER BODY (1) V-3420-19 AC-33962 2	2100/17000 2300/20000 2600/ S L we 3000/ S L	C 404/20000/2300 82	7/20000 37000 NONE	1300 2000	2040/315/ - 3010/250/ - NONE	859 639 NONE	NONE	11441 19418 17878 NONE	48' 1" 41' 6" 342 Sq. Ft.	4-.50-300 Plus alter- nate 6-.50-235 Wing Guns	ARMOR L.P. TANKS S.P. GLASS	Spec. 1-82 Rev. 3-8-44
XP-77 BELL (1) XV-770-17 AC-30864 2	450/12000 520/ 8500 520/ S L we 670/ S L	350/8500/520	3/8500 30100 NONE	1281 1797	- 2.3 hrs/270 -	94 56 56	NONE NONE 325	2760 3857 3583 3940	27' 6" 22' 11" 100 Sq. Ft.	2-.50-200	ARMOR L.P. TANKS S.P. GLASS	Spec. 32- 347-001
XP-82 NORTH AMERICAN (1) V-1650-9 (1) V-1650-21 AC-2029 2	** 1100/17500 1235/29800 1380/ S L we 2270/ 4000	we 482/25100/3600	4.5/20000 43100 -	2470 2415	2600/315/ - 1390/334/ - 638/302/ -	1045 600 400	- 4000	13403 22000 19100 22000	51' 3" 38' 1" 408 Sq. Ft.	6-.50-400	ARMOR L.P. TANKS S.P. GLASS	Spec. 84- 8030.1-15-44 Rev. 10-30-44

NOTES:

AC-AIR CORPS
DA-DEFENSE AID
PO-PURCHASE ORDER

** - WAR EMERGENCY

A-ACCEPTANCE PERFORMANCE TEST RUN AT FACTORY

B-OFFICIAL PERFORMANCE REPORT NO.

C-PRELIMINARY FLIGHT TEST

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CONFIDENTIAL AIRPLANE CHARACTERISTICS & PERFORMANCE

CARGO

DATE: 1 January 1945

MODEL & MFR. ENGINE	ENG. RATINGS NORMAL/ALT. MIL./CRIT. ALT. TAKE-OFF/S. L.	SPEEDS HIGH/ALT./HP LANDING	CLIMB TIME TO FT. SERV. CEIL. CEIL.—1/2 ENGR. OUT	T. O. & LAND T. O. OVER 50' OBS. LAND OVER 50' OBS.	RANGE with FUEL with BOMBS at			WEIGHTS WT. EMPTY DESIGN GROSS WEIGHT	DIMENSIONS SPAN LENGTH WING AREA	ARMAMENT NO. OF GUNS —CAL.—RDS. OF AMM. PER GUN	COMBAT PROT. TYPE	REFERENCE
					MAXIMUM NORMAL (WITH CARGO)	MAXIMUM NORMAL (WITH CARGO)	NONE NORMAL MAXIMUM					
XC-62 FAIRCHILD (2) R-2800-34 AC-30435 2	1450/13000 2150/3000 1700/16000 2100/ S.L.	245/16000/3400 -	10/10000 24000 8000	1950 -	4000/168/- 3000/175/- 1500/156/-	3120 2185 1300	3248# CARGO 1250# CARGO 15000# CARGO	27600 50000 42000 50000	106'0" 76'2" 1400 Sq. Ft.	NONE	NONE	Spec. 78001-C 7/1/44
XC-97 BOEING (4) R-3350-23 AC-34438 3	2000/25000 2200/25000 2200/ S.L.	332/25000/8800 -	45/25000 30500 20500 (3 engines)	5000 -	4045/217/- 2700/-/- 1000/-/-	5785 4378 -	10920# CARGO 20022# CARGO 35800# CARGO	70122 120000 120000 120000	141'3" 110'4" 1739 Sq. Ft.	NONE	NONE	Spec. D-4233 8-18-43
XC-99 CONSOL. (6) R-4360-5 AC-34454 1	2500/40000 3000/35000 3000/ S.L.	335/20000/18000 -	38/20000 30000 20000 (5 engines)	5000 4900	9250/173/- 1700/200/-	20814 5085	1500# CARGO 100000# CARGO	129871 265000 265000 265000	230'0" 182'6" 4772 Sq. Ft.	NONE	NONE	Spec. 20-37- 001.

NOTES:
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DA—DEFENSE AID
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A—ACCEPTANCE PERFORMANCE TEST RUN AT FACTORY
B—OFFICIAL PERFORMANCE REPORT NO.
C—PRELIMINARY FLIGHT TEST

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CONFIDENTIAL **AIRPLANE CHARACTERISTICS & PERFORMANCE**

ADVANCE TRAINER & PHOTOGRAPHIC

DATE: 1 January 1945

MODEL & MFR. ENGINE	ENG. RATINGS NORMAL/ALT. MIL./CRIT. ALT. TAKE-OFF/S. L.	SPEEDS HIGH/ALT./H.P. LANDING	CLIMB TIME TO/FT. SERV. CEIL. CEIL.-1/2 ENGS. OUT	T. O. & LAND T. O. OVER 50 OBS. LAND OVER 50 OBS.	RANGE with SPEEDS & POWER			WEIGHTS WT. EMPTY WEIGHT DESIGN GROSS WEIGHT	DIMENSIONS SPAN LENGTH WING AREA	ARMAMENT NO. OF GUNS -CAL.-RDS. OF AMM. PER GUN	COMBAT PROT. TYPE	REFERENCE
					MAXIMUM NORMAL (WITH MAX. BOMBS)	MAXIMUM NORMAL (WITH MAX. BOMBS)	NONE NORMAL MAXIMUM					
XAT-6E RANGER (1) XV-770-9 AC-2927	450/27000 500/27000 575/ S.L.	229/22800/- -	- 30000 NONE	- -	-	-	-	4345 5417 -	42' 6" 29' 254 Sq. Ft.	1-.30-200 1-.30-250	NONE	RANGER RPT. DATED 9 NOV. 1944
XF-11 HUGHES (2) R-4360-31 AC-1079	2500/40000 3000/40000 3000/ S.L.	450/33000/6000 100	- 42000 18000	4000 3500	5000/-/ 4000/-/ 5000/-/	2520 1900 -	NONE	39392 - 47500 -	101' 4" 65' 6" 983 Sq. Ft.	NONE	ARMOR L.P. TANKS	F-11 SPEC. DI-1 REV. 9-20-44
XF-12 REPUBLIC (4) R-4360-31 AC-2135	2500/40000 3000/40000 3000/ S.L.	465/40000/1200 -	- 47000 25000	3000 3300	3000/-/ 2400/-/ 4500/-/	5550 4350 5550	NONE	71308 - 101304	129' 2" 93' 6" 1640 Sq. Ft.	NONE	ARMOR L.P. TANKS	SPEC. 524 REV. 9

NOTES:

AC—AIR CORPS
DA—DEFENSE AID
PO—PURCHASE ORDER

A—ACCEPTANCE PERFORMANCE TEST RUN AT FACTORY
B—OFFICIAL PERFORMANCE REPORT NO.
C—PRELIMINARY FLIGHT TEST

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ROTARY
CONFIDENTIAL AIRPLANE CHARACTERISTICS & PERFORMANCE

PAGE 7

DATE: 1 January 1945

MODEL & MFR. ENGINE CONT. NO. PLANES	ENG. RATINGS NORMAL/ALT. MIL./CRIT. ALT. TAKE-OFF S. L.	SPEEDS HIGH ALT./H.P. LANDING	CLIMB TIME TO/FT. SERV. CEIL. CEIL.-1/2 ENGS. OUT	T. O. & LAND T. O. OVER 50' OBS. LAND OVER 50' OBS.	RANGE with FUEL with BOMBS at WEIGHTS SPEEDS % POWER			WT. EMPTY WEIGHT DESIGN GROSS WEIGHT	DIMENSIONS SPAN LENGTH WING AREA	ARMAMENT NO. OF GUNS -CAL.-RDS. OF AMM. PER GUN	COMBAT PROT. TYPE	REFERENCE
					MAXIMUM NORMAL (WITH MAX. BOMBS)	MAXIMUM NORMAL (WITH MAX. BOMBS)	NONE NORMAL MAXIMUM					
XR-1 PLATT-LEPAGE (1) R-935-21 AC-15375 1	420/ S.L. 420/ S.L.	110/S.L./ - 0	10/10000 16000 NONE	0 0	- 400/100/ - NONE	- 100 NONE	NONE NONE	4030 5200 NONE	2x 31.5 Dia. Rotor Discs. 1560 Sq. Ft.	NONE	NONE	Spec. R-19
XR-1A PLATT-LEPAGE (1) R-985-AN-1 PO-4609 1	450/ S.L. 450/ S.L.	110/S.L./450 0	10/10000 16000 NONE	0 0	400/ 90/ - NONE	100 NONE	NONE NONE	4121 5300 NONE	2x 31.5" Dia. Rotor Discs. 1560 Sq. Ft.	NONE	NONE	Spec. R-41
YR-1A PLATT-LEPAGE (1) R-985-AN-1 AC-2033 7	450/ S.L. 450/ S.L.	120/S.L./450 0	10/12000 15000 NONE	0 0	400/100/ - NONE	100 NONE	NONE NONE	4066 5218 NONE	2x 31.5" Dia. Rotor Discs. 1560 Sq. Ft.	NONE	NONE	Spec. S-144
XR-4A YR-4B SIKORSKY (1) R-550-1 AC-29005 30	180/ S.L. 200/ S.L.	75/S.L./180 0	45/8000 8000 NONE	0 0	130/145/ - 130/145/ - 65/145/ -	30 14 14	NONE - ** 1-325*	2028.2 - 2569 2894	38'0" Dia. 35'5" Rotor Disc. 1130 Sq. Ft.	NONE	NONE	Spec. 5922a
XR-4C SIKORSKY (1) R-550-1 - 1	180/ S.L. 190/ S.L.	C* 83/S.L./165 0	16/7300 C* 8000 NONE	0 0	- 90/ 60/ 75% -	25 14 -	- NONE -	1927 - 2400 -	38'0" Dia. 38'3" Rotor Disc. 1130 Sq. Ft.	NONE	NONE	Spec. - C* FLIGHT TEST
XR-5 SIKORSKY (1) R-985-AN-5 AC-29845 4	450/ S.L. 450/ 5000	93/5000/400 0	15/10000 14400 NONE	0 0	- 372/ - / - -	- 100 -	- -	3625 - 4850 -	48'0" Dia. 41'10" Rotor Disc. 1660 Sq. Ft.	NONE	NONE	Spec. 5930
XR-5A SIKORSKY (1) R-985-AN-5 DA-2514 2					SAME AS XR-5 WITH ADDITIONAL EQUIPMENT AND MODIFICATIONS REQUESTED BY BRITISH.							
XR-6 SIKORSKY (1) O-435-7 AC-35340 1	225/ S.L. 225/ S.L.	95/S.L./225 0	10/10000 15000 NONE	0 0	- 143/100/ 65% -	50 20 -	NONE -	1990 - 2590 -	38'0" Dia. 38'3" Rotor Disc. 1134 Sq. Ft.	NONE	NONE	Spec. 5923
XR-6A SIKORSKY (1) O-405-9 AC-35340 4	245/ S.L. 245/ S.L.	105/S.L./245 0	10/10000 15000 NONE	0 0	125/ 80/ - 430/ 80/ - 100/ 75/ -	20 70 20	0 0 700	1990 2625 2925 3125	38'0" Dia. 38'3" Rotor Disc. 1134 Sq. Ft.	NONE	NONE	
XR-8 KELLETT (1) O-405-9 AC-40711 2	245/ S.L. 245/ S.L.	100/S.L./245 0	14/10000 8500 NONE	0 0	425/ - / - 200/ - / - -	74 34 -	NONE NONE -	2123 3190 2950 -	2x 36'0" Dia. 40'0" Rotor Disc. 1164 Sq. Ft.	NONE	NONE	Spec. 120.23

NOTES:

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* Performance for XR-4 with 165 H.P. engine and 38 ft. dia. rotor. The XR-4C same as XR-4 except for engine & rotor change.
** Bomb load carried on (20) Y8-48's.

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CONFIDENTIAL AIRPLANE CHARACTERISTICS & PERFORMANCE

DATE: 1 January 1945

MODEL & MFR.		ENG. RATINGS NORMAL/ALT. MIL. CRIT. ALT. TAKE-OFF/S. L.	SPEEDS HIGH/ALT./HP. LANDING	CLIMB TIME TO-FT. SERV. CEIL. CEIL.-1/2 ENGR. OUT	T.O. & LAND T.O. OVER 50' OBS. LAND OVER 50' OBS.	RANGE with FUEL with BOMBS at WEIGHTS SPEEDS % POWER			WT. EMPTY WEIGHT DESIGN GROSS WEIGHT	DIMENSIONS SPAN LENGTH WING AREA	ARMAMENT NO. OF GUNS CALIBRS. OF AMM. PER GUN	COMBAT PROT. TYPE	REFERENCE
CONT.	NO. PLANES					MAXIMUM NORMAL (WITH MAX. BOMBS)	MAXIMUM NORMAL (WITH MAX. BOMBS)	NONE NORMAL MAXIMUM					
XR-9	G S A	-	94/S.L./126	-	0	-	-	-	1022	28'0" Dia. 24'0"	NONE	NONE	Spec. A-744.
(1)	XO-290-5	126/S.L.	0	12400	0	3.5 Hr./74/-	25	NONE	1387	Rotor Disc. 615 Sq.Ft.	NONE	NONE	
AC-170B	2	-	0	NONE	0	2.3 Hr./75/-	16	NONE	1333				
XR-10	KELLETT	525/S.L.	126/S.L./1050	11.5/10000	0	-	-	-	7556	2x 65' Dia. 71'0"	NONE	NONE	Spec. 120.20
(2)	XR-975-15	525/S.L.	0	19800*	0	693/90/-	480	NONE	10300	Rotor Disc. 6620 Sq.Ft.			
-	2	-	-	NONE	0	-	-	-	-				

NOTES:

* ABSOLUTE CEILING

AC-AIR CORPS

DA-DEFENSE AID

PO-PURCHASE ORDER

A-ACCEPTANCE PERFORMANCE TEST RUN AT FACTORY

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CARGO AND FUEL GLIDERS

AIRPLANE CHARACTERISTICS & PERFORMANCE

DATE: 1 January 1945

MODEL & MFR. ENGINE	ENG. RATINGS NORMAL/ALT. MIL. CRIT. ALT. TAKE-OFF/S. L.	SPEEDS HIGH/ALT./H.P. LANDING	CLIMB TIME TO FT. SERV. CEIL. CEIL.—1/2 ENGS. OUT	T. O. & LAND T. O. OVER 50' OBS. LAND OVER 50' OBS.	RANGE with FUEL with BOMBS at WEIGHTS			DIMENSIONS SPAN LENGTH WING AREA	ARMAMENT NO. OF GUNS —CAL.—RDS. OF AMM. PER GUN	COMBAT PROT. TYPE	REFERENCE	
					with SPEEDS % POWER	FUEL	BOMBS					EMPTY WEIGHT DESIGN GROSS WEIGHT
XCG-10A LAISTER KAUFFMAN	NONE	180 180 60					13000 -	105'0" 67'0" 1171 Sq. Ft.	NONE	NONE	Spec. L.V.- 1105.	
AC-27357 2					42 TROOPS	PLUS	EQUIPMENT	25000 -				
XCG-14 CHASE	NONE	170 200 60			16 TROOPS	PLUS	EQUIPMENT	3237 7605 -	71'10" 42'10" 507 Sq. Ft.	NONE	NONE	CHASE RE- PORT NO. 1 8-25-43
AC-1206 2												
XCG-15 WACO	NONE	150 150 57			15 TROOPS	PLUS	EQUIPMENT	4023 7500 -	62'3" 48'10" 623 Sq. Ft.	NONE	NONE	WACO SPEC. NO. 1535.
AC-25851 1												
XCG-15A WACO	NONE	180 180 60			16 TROOPS	PLUS	EQUIPMENT	4023 8000 -	45 ABOVE	NONE	NONE	WACO SPEC. NO. 1535-A
XCG-16 GENERAL AIRBORNE TRANSPORT CO.	NONE	220 220 58			42 TROOPS	PLUS	EQUIPMENT	9500 19580 -	91'10" 48'4" 1200 Sq. Ft.	NONE	NONE	GATC SPEC. NO. W-100
AC-1695 2												
XCG-17 (C-47A CONVERSION)	NONE	204 255 70			42 TROOPS	PLUS	EQUIPMENT	11000 26000 -	95'0" 84'6" 987 Sq. Ft.	NONE	NONE	C-47
XFG-1 CORNELIUS		250 250 74.5			1 PILOT AND	677	GALLONS GASOLINE	3362 8000 -	64'0" 64'6" 356 Sq. Ft.	NONE	NONE	CORNELIUS REPORT 102A
AC-11004 3												

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CONFIDENTIAL AIRPLANE CHARACTERISTICS & PERFORMANCE

POWER GLIDERS

DATE 1 January 1945

MODEL & MFR. ENGINE	ENG. RATINGS NORMAL/ALT. MIL. CRIT. ALT. TAKE-OFF S. L.	SPEEDS HIGH/ALT./HP LANDING	CLIMB TIME TO FT. SERV. CEIL. CEIL.—1.2 ENGS. OUT	T. O. & LAND T. O. OVER 50' OBS. LAND OVER 50' OBS.	RANGE with FUEL with BOMBS at			WEIGHTS EMPTY WEIGHT DESIGN GROSS WEIGHT	DIMENSIONS SPAN LENGTH WING AREA	ARMAMENT NO. OF GUNS —CAL.—RDS. OF AMM. PER GUN	COMBAT PROT. TYPE	REFERENCE
					MAXIMUM NORMAL (WITH TROOPS)	MAXIMUM NORMAL (WITH TROOPS)	MAXIMUM NORMAL (WITH TROOPS)					
XPG-2A (CG-4A) (2) 1-440-7	200/ S.L. 200/ S.L. 200/ S.L.	100 150 50	- - -	- - -	- - -	- 120 -	NONE - -	6731 - 9000	83'8" 48'4" 852 Sq. Ft.	NONE - -	NONE - -	SPEC. 1325 A
XPG-2B (CG-4A) (2) R-755-9	225/ S.L. 245/ S.L. -	110 150 50	2/1000 - -	1492 - -	- - / 80 / - 194 / 80 / -	- 120 80	NONE - -	6043 - 9000	AS - ABOVE	NONE - -	NONE - -	WACO RE- PORT NO. 1573.
XPG-3 (XCG-15A) (2) R-755-9	225/ S.L. 245/ S.L. -	115 180 58	2/1000 - -	1853 - -	- 345 / / - 207 / 71 / -	- 120 80	NONE - -	6224 - 9000	70' 5" 48' 10" 683 Sq. Ft.	NONE - -	NONE - -	WACO RE- PORT NO. 1575.

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CONFIDENTIAL AIRPLANE CHARACTERISTICS & PERFORMANCE

POWER DRIVEN CONTROLLABLE BOMBS &
RADIO CONTROLLED AIRPLANE TARGETS.

DATE: 1 January 1945

MODEL & MFR. ENGINE	ENG. RATINGS NORMAL/ALT. MIL./CRIT. ALT. TAKE-OFF S. L.	SPEEDS HIGH/ALT./H.P. LANDING	CLIMB TIME TO FT. SERV. CEIL. CEIL.-1/2 ENGR. OUT	T. O. & LAND T. O. OVER 50' OBS. LAND OVER 50' OBS.	RANGE with SPEEDS % POWER			FUEL with NORMAL (WITH MAX. BOMBS)	BOMBS at NORMAL MAXIMUM	WEIGHTS WT. EMPTY DESIGN GROSS WEIGHT	DIMENSIONS SPAN LENGTH WING AREA	ARMAMENT NO. OF GUNS -CAL.-BDS. OF AMM. PER GUN	COMBAT PROT. TYPE	REFERENCE
					MAXIMUM NORMAL (WITH MAX. BOMBS)	MAXIMUM NORMAL (WITH MAX. BOMBS)	NONE NORMAL MAXIMUM							
XBQ-3 FAIRCHILD (2) Y-770-15 AC-32134 2	450/ S.L. 450/12000 520/ S.L.	220/12000/900 96	- 14000 -	4200 - -	- 1500/203/ 75% -	(USED IN BOMB CONDITION) 500 500	4000 4000	7686 15340 15340	52' 9" 36' 2" 376 Sq. Ft.	NONE	NONE	SPEC. 79000- 0 REV. A		
XBQ-3 FAIRCHILD (2) Y-770-15 AC-32134 2	450/ S.L. 450/12000 520/ S.L.	220/12000/900 92	- 16000 -	3500 - -	- 2900/197/ 75% -	(USED IN FERRY CONDITION) 800 800 NONE	NONE	8038 14203 NONE	52' 9" 36' 2" 376 Sq. Ft.	NONE	NONE	SPEC. 79000- C REV. A		
XPQ-15 CULVER (1) XQ-405-7 AC-5170 2	193/20000 250/ S.L.	242/20000/193 68	11.5/20000 33100 NONE	920 1155	2.8HR/242/100 4.5HR/205/70% 727/ -/ 70%	65 65 65	0 0 0	1753 2400 2400	30' 22' 5" 103 Sq. Ft.	NONE	NONE	SPEC. 37-A REV. 25 AUG. 1944		

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