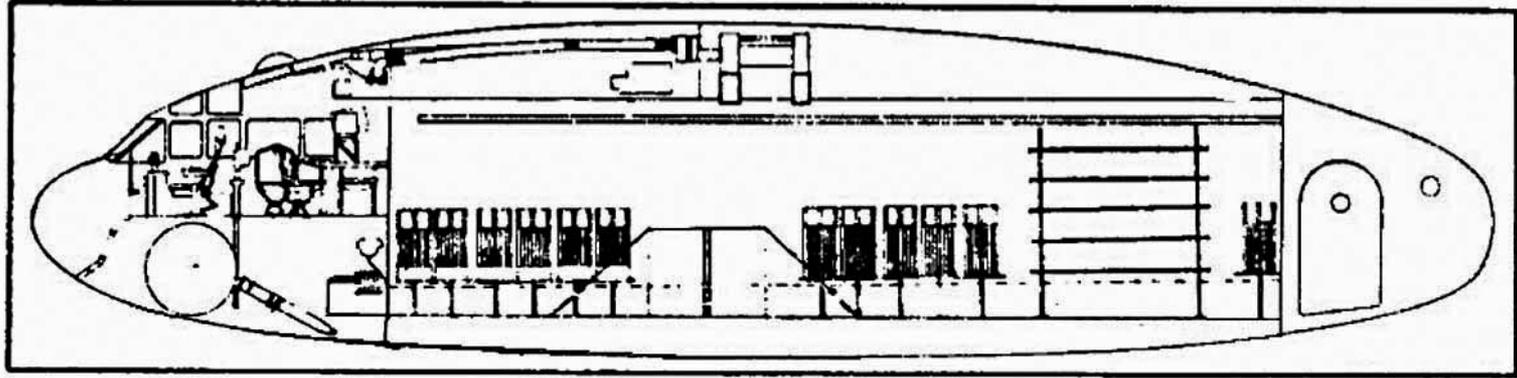
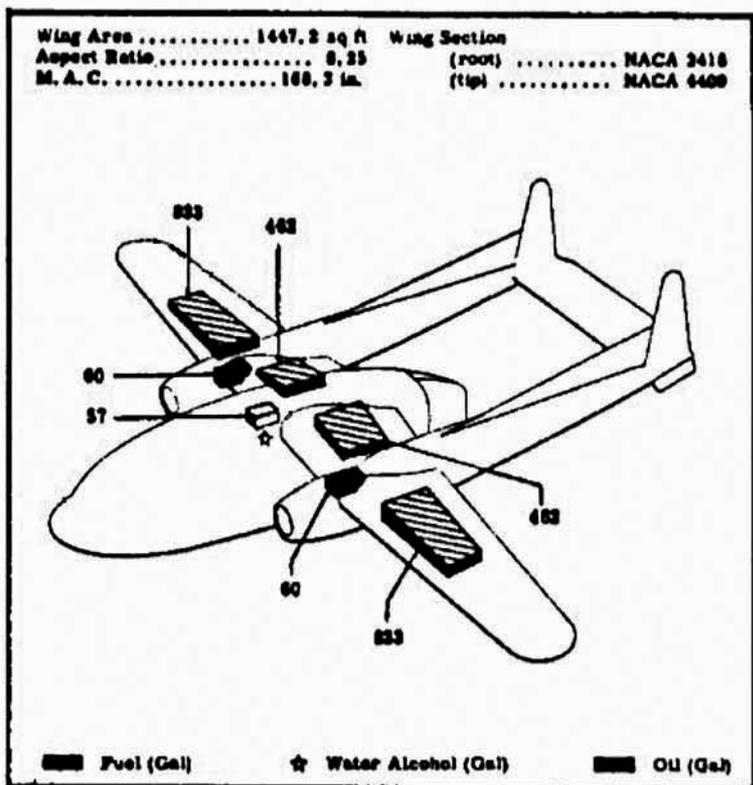
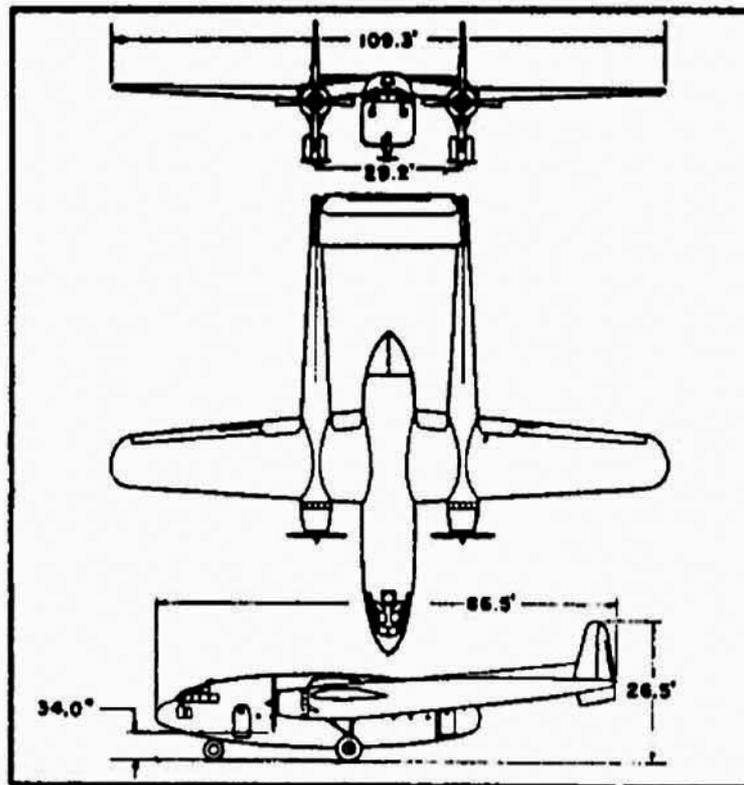


STANDARD AIRCRAFT CHARACTERISTICS

C-119F PACKET



POWER PLANT

NO. & MODEL.....(2) R-3350-85
 MFR.....Wright
 SUPERCH.....1 Stage, 2 speed
 RED. GEAR RATIO.....0.4375
 PROP. MFR.....Hamilton Standard
 BLD. DES. NO.....2J17G3-26R
 NO. BLD./DLA.....4/15'

RATINGS

| | BHP | RPM | ALT. |
|-------|--------|-------|---------|
| T. O. | *3,500 | 2,900 | S.L. |
| | 3,250 | 2,900 | S.L. |
| MIL. | 3,250 | 2,900 | 3,500' |
| | 2,550 | 2,600 | 15,400' |
| NORM. | 2,650 | 2,600 | 6,500' |
| | 2,450 | 2,600 | 16,600' |

SPEC. No. 868B

*Water Injection

MISSION AND DESCRIPTION

The principal mission of the R4Q-2 is to transport cargo, personnel, litter patients, mechanized equipment and/or paratroops.

The cargo compartment is designed to provide ease of loading and unloading. Two large doors at the aft and swing outward to expose the full height and width of the cargo compartment. Two metal ramps are provided for landing mobile equipment. A door is provided in each of the large cargo doors to give paratroops a convenient exit free from obstructions.

The monorail system is incorporated for aerial delivery of paracans through doors in the floor of the cargo compartment.

DEVELOPMENT

First Flight.....February 1953
 Service Use.....March 1953

WEIGHTS

| LOADINGS | LBS. | L.F. |
|---------------|--------|------|
| EMPTY..... | 40,118 | |
| BASIC..... | 40,476 | |
| DESIGN..... | 64,000 | 3.0 |
| MAX. T.O..... | 77,000 | |
| MAX. LDG..... | 77,000 | |

All Weights Are Actual

FUEL AND OIL

| GALS. | NO. TANKS | LOCATION |
|-------|-----------|----------|
| 2,590 | 4 | Wings |

FUEL GRADE.....115/145
 FUEL SPEC...applicable...MIL-P-5572

OIL

CAPACITY.....120 gals.
 GRADE.....W 1100
 SPEC.....applicable...MIL-L-6082

ACCOMMODATIONS

CREW.....5
 TROOPS (Normal).....42
 TROOPS (max.).....62
 LITTERS.....35
 ATTENDANTS.....4
 MAX. CARGO.....31,500#
 CARGO COMPARTMENT:
 LENGTH.....36' - 11"
 WIDTH.....9' - 10"
 HEIGHT.....8' - 0"
 REAR LOADING DOOR:
 WIDTH.....9' - 10"
 HEIGHT.....8' - 0"

DIMENSIONS

WING
 AREA.....1,447 Sq. Ft.
 SPAN.....109' - 3"
 LENGTH.....86' - 6"
 HEIGHT.....26' - 6"
 TREAD.....29' - 2"
 PROP. GRD. CLEAR.....2' - 10"

ELECTRONICS

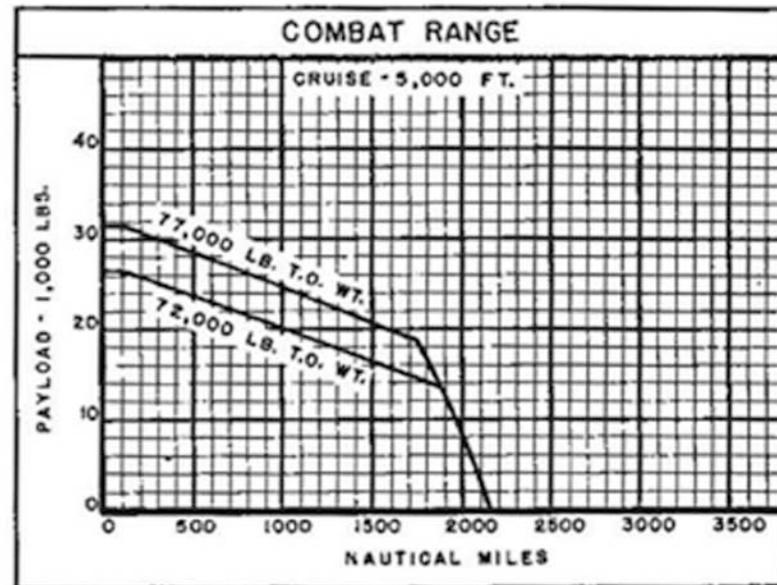
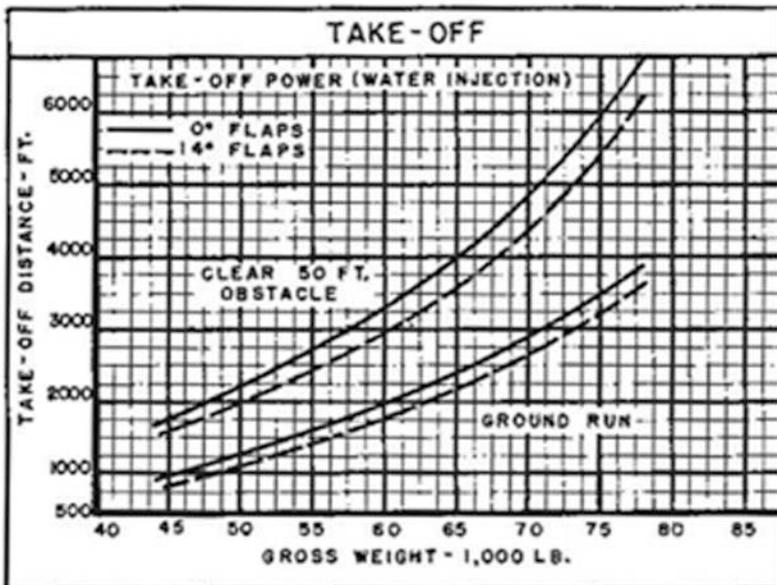
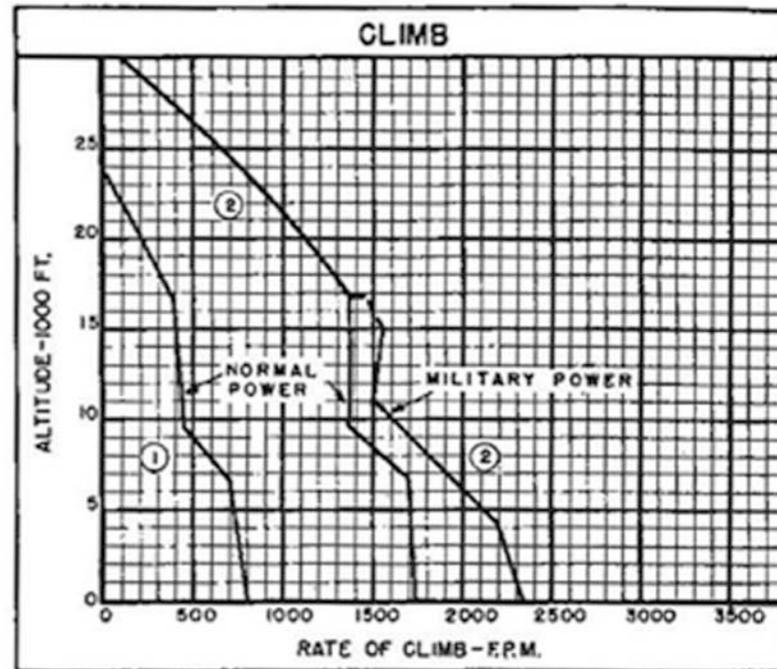
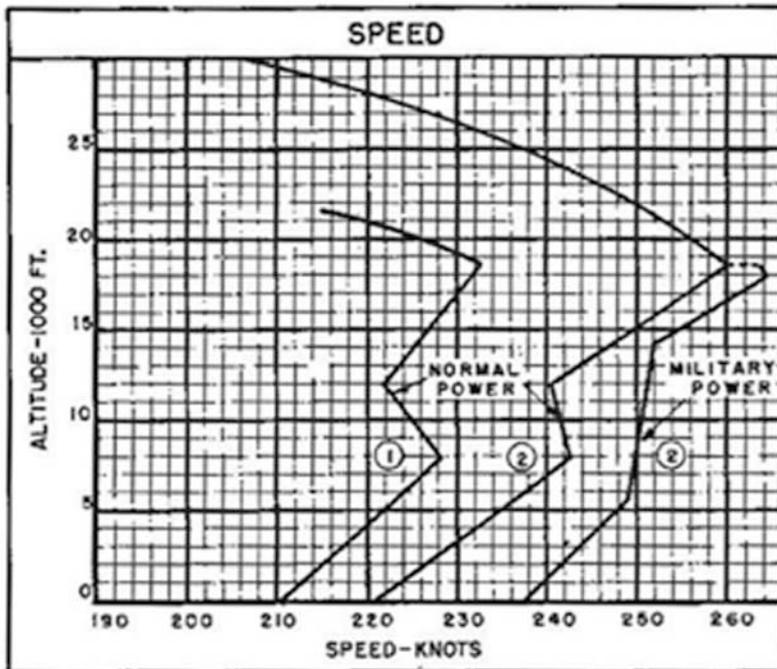
UIF COMMAND.....AN/ARC-27
 VHF COMMAND.....AN/ARC-3
 LIAISON.....AN/ARC-8
 LORAN.....AN/APN-9
 RADIO COMPASS.....AN/ARN-6
 OMNI RANGE.....AN/ARN-14
 GLIDE PATH.....AN/ARN-18
 INTERPHONE.....AN/AIC-8
 MARKER BEACON.....AN/ARB-12
 RADIO ALTIMETER.....AN/APN-1
 NAVIGATION RADAR.....AN/APN-12
 IFF.....AN/APX-6
 EMERGENCY KEYER.....AN/ARA-26

| PERFORMANCE SUMMARY | | | | | |
|-----------------------------------|-----------------------------|------------------------------|--------------------------------|------------|------------|
| TAKE-OFF LOADING CONDITION | (1) BASIC MISSION TRANSPORT | (3) MAXIMUM NORMAL TRANSPORT | (4) MAXIMUM OVERLOAD TRANSPORT | (5) FERRY | |
| TAKE-OFF WEIGHT | lb. | 77,000 | 72,000 | 77,000 | 58,371 |
| Fuel | lb. | 13,519 | 13,044 | 15,540 | 15,540 |
| Payload | lb. | 20,650 | 16,125 | 18,629 | -- |
| Wing loading | lb./sq.ft. | 53.2 | 49.7 | 53.2 | 40.3 |
| Stall speed - power-off | kn. | 97 | 94 | 97 | 85 |
| Take-off run at S.L. - calm | (A) ft. | 3,875 | 3,240 | 3,875 | 1,900 |
| Take-off run at S.L. kn. wind | ft. | -- | -- | -- | -- |
| Take-off to clear 50 ft. - calm | (A) ft. | 6,620 | 5,400 | 6,620 | 3,050 |
| Max. speed/altitude | (C) kn./ft. | 233/18,500 | 235/18,500 | 233/18,500 | 250/18,500 |
| Rate of climb at S.L. | (C) fpm. | 795 | 925 | 795 | 1,395 |
| Time: S.L. to 10,000 ft. | (C) min. | 14.9 | 12.5 | 14.9 | 8.1 |
| Time: S.L. to 20,000 ft. | (C) min. | 42.0 | 32.0 | 42.0 | 18.3 |
| Service ceiling (100 fpm) | (C) ft. | 21,900 | 23,100 | 21,400 | 27,500 |
| Combat range | n.mi. | 1,460 | 1,510 | 1,735 | 2,120 |
| Average cruising speed | kn. | 158 | 159 | 158 | 164 |
| Cruising altitude(s) | ft. | 5,000 | 5,000 | 5,000 | 5,000 |
| Combat radius | n.mi. | 750 | 750 | 880 | -- |
| Average cruising speed | kn. | 162 | 162 | 161 | -- |
| Mission time | hr. | 9.3 | 9.3 | 11.0 | -- |
| COMBAT LOADING CONDITION | | | | | |
| (2) | | | | | |
| COMBAT WEIGHT | lb. | 49,368 | | | |
| Engine power | | Military | | | |
| Fuel | lb. | 6,548 | | | |
| Combat speed/combat altitude | kn./ft. | 248/5,000 | | | |
| Rate of climb/combat altitude | fpm/ft. | 2,100/5,000 | | | |
| Combat ceiling (500 fpm) | ft. | 26,600 | | | |
| Rate of climb at S.L. | fpm. | 2,320 | | | |
| Max. speed at S.L. | kn. | 238 | | | |
| Max. speed/altitude | kn./ft. | 265/17,900 | | | |
| LANDING WEIGHT | | | | | |
| LANDING WEIGHT | lb. | 43,972 | 43,964 | 44,080 | 44,080 |
| Fuel | lb. | 1,152 | 1,144 | 1,250 | 1,250 |
| Stall speed - power-off | kn. | 73 | 73 | 73 | 73 |
| Stall speed - with approach power | kn. | 68 | 68 | 68 | 68 |

NOTES

- (A) TAKE-OFF POWER (Water Injection).
 (B) MILITARY POWER.
 (C) NORMAL POWER.

PERFORMANCE BASIS: Performance is based on in-flight test data of the USAF Model G-119F airplane.



○ LOADING CONDITION COLUMN NUMBER

NOTES

COMBAT RANGE

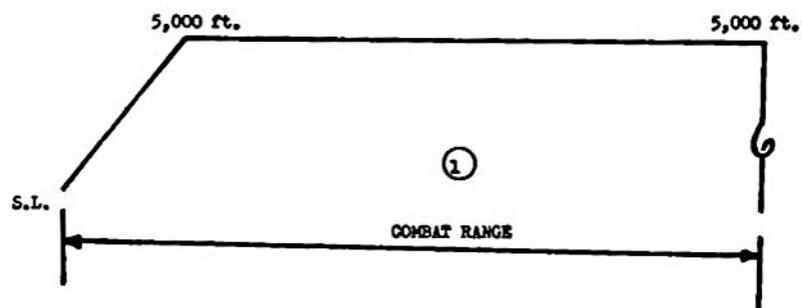
WARM-UP, TAKE-OFF, ACCELERATION: 10 minutes at normal rated power.

CLIMB: On course to 5,000 feet at normal rated power.

CRUISE: At speed for long range at 5,000 feet.

RESERVE: 30 minutes at speed for long range at sea level plus 5% of initial fuel.

$$\text{COMBAT RANGE} = \text{CLIMB} + \text{CRUISE}$$



○ LOADING CONDITION COLUMN NUMBER