

TAKE-OFF DATA

TAKE-OFF DISTANCE FROM HARD SURFACE RUNWAY WITH FLAPS UP

| GROSS WEIGHT POUNDS | IAS AT 50' MPH | HEAD WIND KNOTS | AT SEA LEVEL & 59°F | | AT 2500 FT. & 50°F | | AT 5000 FT. & 41°F | | AT 7500 FT. & 32°F | |
|---------------------|----------------|-----------------|---------------------|--------------------------|--------------------|--------------------------|--------------------|--------------------------|--------------------|--------------------------|
| | | | GROUND RUN | TOTAL TO CLEAR 50 FT OBS | GROUND RUN | TOTAL TO CLEAR 50 FT OBS | GROUND RUN | TOTAL TO CLEAR 50 FT OBS | GROUND RUN | TOTAL TO CLEAR 50 FT OBS |
| 2300 | 68 | 0 | 865 | 1525 | 1040 | 1910 | 1255 | 2480 | 1565 | 3855 |
| | | 10 | 615 | 1170 | 750 | 1485 | 920 | 1955 | 1160 | 3110 |
| | | 20 | 405 | 850 | 505 | 1100 | 630 | 1480 | 810 | 2425 |
| 2000 | 63 | 0 | 630 | 1095 | 755 | 1325 | 905 | 1625 | 1120 | 2155 |
| | | 10 | 435 | 820 | 530 | 1005 | 645 | 1250 | 810 | 1685 |
| | | 20 | 275 | 580 | 340 | 720 | 425 | 910 | 595 | 1255 |
| 1700 | 58 | 0 | 435 | 780 | 520 | 920 | 625 | 1095 | 765 | 1370 |
| | | 10 | 290 | 570 | 355 | 680 | 430 | 820 | 535 | 1040 |
| | | 20 | 175 | 385 | 215 | 470 | 270 | 575 | 345 | 745 |

- NOTES: 1. Increase distance 10% for each 25°F above standard temperature for particular altitude.
 2. For operation on a dry, grass runway, increase distances (both "ground run" and "total to clear 50 ft. obstacle") by 7% of the "total to clear 50 ft. obstacle" figure.

MAXIMUM RATE-OF-CLIMB DATA

| GROSS WEIGHT POUNDS | AT SEA LEVEL & 59°F | | | AT 5000 FT. & 41°F | | | AT 10,000 FT. & 23°F | | | AT 15,000 FT. & 5°F | | |
|---------------------|---------------------|----------------------|-------------------|--------------------|----------------------|---------------------|----------------------|----------------------|---------------------|---------------------|----------------------|---------------------|
| | IAS MPH | RATE OF CLIMB FT/MIN | GAL. OF FUEL USED | IAS MPH | RATE OF CLIMB FT/MIN | FROM S.L. FUEL USED | IAS MPH | RATE OF CLIMB FT/MIN | FROM S.L. FUEL USED | IAS MPH | RATE OF CLIMB FT/MIN | FROM S.L. FUEL USED |
| 2300 | 91 | 645 | 1.0 | 85 | 435 | 2.6 | 80 | 230 | 4.8 | 73 | 20 | 11.5 |
| 2000 | 88 | 840 | 1.0 | 81 | 610 | 2.2 | 75 | 380 | 3.6 | 68 | 155 | 6.3 |
| 1700 | 83 | 1085 | 1.0 | 77 | 825 | 1.9 | 70 | 570 | 2.9 | 64 | 315 | 4.4 |

- NOTES: 1. Flaps up, full throttle, mixture leaned for smooth operation above 3000 ft.
 2. Fuel used includes warm up and take-off allowance.
 3. For hot weather, decrease rate of climb 20 ft./min. for each 10°F above standard day temperature for particular altitude.