

SECTION III

CHEROKEE SIX "B"

Soft Field, Obstacle Clearance:

Lower flaps to 25° (second notch) accelerate aircraft, pull nose gear off as soon as possible and lift off at lowest possible airspeed. Accelerate just above the ground to best angle of climb speed, 95 MPH to climb past obstacle clearance height, continue climb while accelerating to best rate of climb speed, 105 MPH and slowly retract the flaps.

Soft Field, No Obstacle:

Lower flaps to 25° (second notch) accelerate aircraft, pull nose gear off as soon as possible and lift off at lowest possible airspeed. Accelerate just above the ground to best rate of climb speed, 105 MPH and climb out while slowly retracting the flaps.

PERFORMANCE

Take-off Run (Minimum)*	810	560	740	520
Take-off over 50 ft. barrier (Minimum)*	1360	1110	1240	1020
Best Rate of Climb Speed (mph)	105	100	105	100
Rate of Climb (ft. per min.)	760	845	850	995
Service Ceiling (ft.)	13,000	15,000	14,500	17,500
Absolute Ceiling (ft.)	15,000	17,000	16,500	19,000
Top Speed (mph)	168	171	166	169
Optimum Cruise Speed (7000 ft.) (75% power) (mph)	158	161	158	161
Cruising Range (55% power) (Standard Fuel) (Optimum Altitude, Miles)	660	670	660	670
Cruising Range (55% power) (Standard Auxiliary Fuel) (Optimum Altitude, Miles)	1110	1125	1110	1125
Cruising Range (75% power) (Standard Fuel) (Optimum Altitude, Miles)	560	570	560	570
Cruising Range (75% power) (Standard Auxiliary Fuel) (Optimum Altitude, Miles)	950	960	950	960

*THESE FIGURES ARE FOR MAXIMUM EFFORT. SEE
CHARTS IN SECTION IV FOR NORMAL TAKE-OFF DISTANCES.

Minimum Takeoff Distance Over 50ft Barrier