



Operation Manual for 120 Cessna 140

CESSNA AIRCRAFT COMPANY • WICHITA, KANSAS

OPERATION AND PERFORMANCE DATA

CLIMB:

The rate of climb and speed for best climb at various altitudes for gross weight of 1450 lbs. and equipped with wooden Sensenich 74FK-49 propeller is given in the table below:

Attitude (ft.)	Sea Level	2500'	5000'	7500'	10,000'	12,500'	15,000'
Best Climb Speed (T.I.A.S.)	81	78	75	72	69	64	57
Rate of Climb (ft./min.)	640	550	450	360	260	170	70

- (1) Density altitude.
- (2) Gross weight 1450 with 74FK-49 propeller.

The above table is for standard conditions.

CRUISING:

The following approximate cruising information is applicable at altitudes from sea level to 10,000 ft. It is based on total usable fuel with no allowance for reserve:

R.P.M.	Max. Range	Miles/gal.	Gals./hr.
2575	455	19.4	5.9
2500	485	20.7	5.3
2400*	506	21.5	4.8
2300	518	22.0	4.5
2200	521	22.1	4.2
2100	510	21.7	4.0
*Recommended cruising.			

NOTE: Cruising performance is dependent upon carburetor metering characteristics, engine and propeller condition, and turbulence of the atmosphere in addition to the controllable variables r.p.m., altitude, gross weight, etc. These undeterminate variables may account for variations of 10 per cent or more in the maximum range. The variation in range due to normal changes in gross weight and altitude is within this 10 per cent variation and in order to make the cruising data as readily usable as possible it is presented in this simplified form, using average values for altitude, gross weight, drag, carburetor and engine characteristics.




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