

FAIRBANKS FLOATPLANE COMPANY

CESSNA 172 SEAPLANE -AIRCRAFT SPECIFICATIONS *Revision June 2, 2014* **N9815G – C172L 1971**

Values are for max gross wt., std conditions, sea-level (unless otherwise indicated)

Wing span 36-1"
Length – on 2000 EDO @ 17' 6"
MGW 2220 LBS.

AIRCRAFT AIRSPEEDS

V _{SO}	52 mph	
V _S	59 mph	
V _X	61 mph (Flaps 20°)	
V _Y	71 mph (Flaps 20°)	
V _Y	80 mph (Flaps 0°)	
V _{FE}	100 mph	
V _A	122 mph	
V _{NO}	140 mph	
V _{NE}	174 mph	
Maximum Demonstrated Crosswind Component		Not Published, 20% of V _{so} = 10MPH
Normal Climb	80-90 mph	
Engine Out Glide	80 mph	

AIRSPEED MARKINGS

WHITE ARC (FLAP DOWN RANGE)	52-100 MPH
GREEN ARC (NORMAL RANGE)	59-140 MPH
YELLOW ARC (CAUTION RANGE)	140-174 MPH
RED RADIAL LINE (NEVER EXCEED)	174 MPH

PERFORMANCE*

TAKEOFF RUN 10 °flaps	1620 FT
TAKEOFF DISTANCE CLEAR 50ft	2390 FT
BEST RATE OF CLIMB 71 mph@mgtw	580 FPM
SERVICE CEILING	12,000 ft.
CRUISING: 75%power, 2500'	103 MPH/470sm
CRUISING :65%power, 7500'	100 MPH/525sm
LANDING WATER RUN (Flaps 40° No wind S/L)	590 FT
Over (50 FT)	1345FT

* Performance and fuel burn slightly increased with 160hp/powerflow exhaust engine

WEIGHTS

GROSS WEIGHT	2220 LBS
EMPTY WEIGHT (STANDARD)	1517 LBS (2008) rear seat removed
USEFUL LOAD (STANDARD)	703 LBS
LOAD AVAILABLE W/ FULL FUEL	463 LBS
BAGGAGE MAX	Aft seat area 400 lbs (Chart max) Aft Bag 120 lbs (limitation)

POWER PLANT

ENGINE	LYC, 0320 E2D (RAM 160 HP conversion + Powerflow exhaust = 183 HP)
RATED HORSEPOWER	183 HP
RATED SPEED	2700RPM
DISPLACEMENT	320 CU. IN.
Oil pressure 60-90psi (green arc) Idle 25 psi /Max 100psi (red line)	
Max Oil Temp	245°

PROPELLER

McCauley Fixed Pitch 1A175/SFC 80' length /42" pitch
2700 Max RPM

ELECTRICAL

14V DC, alternator
60 amp Circuit Breaker
Secondary power provided by 12V lead acid battery

FUEL/OIL

USEABLE FUEL 38 useable.-42 gal total in two wing tanks
FUEL GRADE 100/130
OIL CAPACITY 8 QTS – min 6 qts
Both tanks ON for takeoff and landing
4 fuel sump drains – 1 ea wing, 1 belly, 1 on firewall. **Drain ALL prior flight!**

FLIGHT LOAD FACTORS

Positive Load Factor (Maximum) +3.8 G
Negative Load Factor (Maximum) -1.5 G
NO SPINS or INVERTED MANUVERS APPROVED

MISCELLANEOUS

Survival gear in aft baggage
ELT behind baggage bulkhead

EDO Model 89-2000 floats installed
Dual water rudders
Spring ball pump-outs for each float compartment (6 pump-outs per float)
Pump-out holds 1 pint of water
Always have dock line accessible in cabin
Oars stowed baggage compartment

W&B Datum forward face of firewall

Stall indicator light at 5-10mph above stall
Wait 2-5 minutes before resetting popped circuit breakers