

DEHAVILLAND DHC-2 Model Guide

The DEHAVILLAND DHC-2 (Beaver) is a single-engine piston utility aircraft from de Havilland Canada. It flies as a landplane, on skis or on floats. The registry family covers the Mk.I, Mk.II and Mk.III variants and lists up to 8 passengers. The figures below come from the reference sheet, which uses a 5,100 lb landplane case.

KEY TAKEAWAYS

- The DHC-2 family lists up to 8 passengers, up to 670 nm range and a service ceiling up to 20000 ft (family maxima).
- Reference landplane at 5,100 lbs: 1,250 ft take-off and 1,250 ft landing over a 50 ft obstacle.
- Range is 455 nm on standard tanks and 740 nm with tip tanks (5,000 ft cruise, landplane).
- Inspection runs preflight, daily and every 100 flying hours, in an 800-hour cycle that ends with the power unit due for replacement.

PERFORMANCE (REFERENCE SHEET, LANDPLANE)

At 5,100 lbs the landplane's maximum level speed is 156 mph at sea level. Cruise at 300 BHP is 136 mph at sea level. Stall is 60 mph flaps up and 45 mph with landing flaps. Initial climb is 1,020 fpm at take-off power, flaps up. Service ceiling is 18,000 ft. Ski/seaplane figures are lower: 15,750 ft ceiling and 1,610 ft take-off.

WHAT TO INSPECT

The de Havilland schedule has five parts: preflight, daily, periodic (every 100 flying hours), special and replacement. Items marked 2nd, 4th or 8th fall due on every second, fourth or eighth periodic inspection. Look for corrosion, loose rivets, skin buckling, control cable condition, wing attachment pins and strut bolts. Check the tailwheel strut, the brakes and fuel or oil leaks. Every inspection must be entered in the log book.

FLOATPLANE AND SEAPLANE NOTES

The Aerocet Model 5850 twin floats have an STC for the DHC-2. They are all-composite, with two storage lockers per float and water rudders tied to the aircraft rudder. Each float is carried by forward, mid and aft struts. Check the float rigging, strut bolts and wear strips. Jack only one float at a time, at the keel point 5.2 inches ahead of the step.

PERFORMANCE

Takeoff Distance 50ft Ft	1250
Landing Distance 50ft Ft	1250
Initial Climb Fpm	1020
Service Ceiling Ft	18000
Cruise Range Standard Tanks Nm	455
Cruise Range Tip Tanks Nm	740
Family Max Range Nm	670
Family Max Service Ceiling Ft	20000

V-SPEEDS

Stall Flaps Up Mph	60
Stall Flaps Landing Mph	45
Rotate Max Mph	65
Climb Mph	65
Approach Mph	80
Flap Limit Mph	105
Diving Mph	180

WEIGHT & BALANCE

Reference Weight Landplane Lbs	5100
Reference Weight Seaplane Lbs	5090

SAFETY NOTES

- Starting: do not pump the throttle to catch a dying engine. If oil pressure shows nothing within 30 seconds, stop the engine and investigate.
- Do not exceed 450°F cylinder head temperature. Keep oil inlet temperature above 100°F and below 200°F.
- Engine failure below 800 ft after take-off: hold 65 MPH, go straight ahead, turn only enough to miss obstacles, and use rudder only.