

# Cessna 182S Skylane Performance and Specifications

## Performance – Standard Specifications

### SPEED

-Maximum at Sea Level .....145 KTS

-Cruise, 80% Power at 6000 Ft.....140 KTS

### CRUISE

*Using recommended lean mixture with fuel allowance for engine start, taxi, takeoff, climb and 45 minutes reserve.*

-75% Power at 6000 Ft ..... Range 820NM

-88 Gallons Usable Fuel .....Time 6.05 HRS

RATE OF CLIMB AT SEA LEVEL .....924 FPM

SERVICE CEILING ..... 18,100 FT

### TAKEOFF PERFORMANCE:

-Ground Roll ..... 795 FT

-Total Distance Over 50 Ft. Obstacle ..... 1514 FT

### LANDING PERFORMANCE:

-Ground Roll ..... 590 FT

-Total Distance Over 50 Ft. Obstacle ..... 1350 FT

### STALL SPEED:

-Flaps Up, Power Off ..... 43 KIAS

-Flaps Down, Power Off ..... 36 KIAS

### MAXIMUM WEIGHT:

-Ramp ..... 3110 LBS

-Takeoff ..... 3100 LBS

-Landing ..... 2950 LBS

STANDARD EMPTY WEIGHT ..... 1925 LBS

MAXIMUM USEFUL LOAD.....	1185 LBS
BAGGAGE ALLOWANCE.....	200 LBS
WING LOADING: Lbs/Sq Ft .....	17.8
POWER LOADING: Lbs/HP .....	13.5
FUEL CAPACITY .....	92 GAL
OIL CAPACITY .....	9 QTS
ENGINE: Textron Lycoming .....	IO-540-AB1A5,
230 BHP at 2400 RPM	
PROPELLER: Diameter – 3-blade .....	79 IN

*The above performance figures are based on the indicated weights, standard atmospheric conditions, level hard-surface dry runways and no wind. They are calculated values derived from flight tests conducted by the Cessna Aircraft Company under carefully documented conditions and will vary with individual airplanes and numerous other factors affecting flight performance.*

**AIRSPEEDS - NORMAL OPERATIONS**

**Takeoff:**

- Normal Climb Out.....70 – 80 KIAS
- Short Field Takeoff, Flaps 10°, Speed at 50 ft..... 57 KIAS

**Enroute Climb, Flaps Up:**

- Normal, sea level ..... 85 – 95 KIAS
- Best Rate-of-Climb, Sea level..... 80 KIAS
- Best Rate-of-Climb, 10,000 ft ..... 72 KIAS
- Best Angle-of-Climb, Sea level ..... 63 KIAS
- Best Angle-of-Climb, 10,000 ft ..... 66 KIAS

**Landing Approach (2950 Lbs):**

- Normal Approach Flaps Up..... 70 – 80 KIAS
- Normal Approach, Flaps FULL..... 60 – 70 KIAS
- Short Field Approach, Flaps FULL..... 60 KIAS

Balked Landing (2950 Lbs):

-Maximum Power, Flaps 20° ..... 55 KIAS

V-Speeds:

-Vne (never exceed) ..... 175 KIAS

-Vno (Maximum structural cruising speed) ..... 140 KIAS

-Vfe (Flaps 10°) ..... 110 KIAS

-Vfe (Flaps 20°) ..... 101 KIAS

-Vfe (Flaps 30°) ..... 88 KIAS

Maximum Recommended Turbulent Air Penetration Speed:

-3100 Lbs..... 110 KIAS

-2600 Lbs..... 101 KIAS

-2000 lbs ..... 88 KIAS

Maximum Demonstrated Crosswind Velocity:

-Takeoff or landing ..... 15 KNOTS

Stall Speed:

-Flaps Up, Power Off ..... 43 KIAS

-Flaps Down, Power Off ..... 36 KIAS

*Unless otherwise noted, the speeds listed above are based on a maximum weight and may be used for any lesser weight. To achieve the performance specified in the performance section for take-off distance of the aircraft approved flight manual, the speed appropriate to the particular weight must be used.*