

SunQuest Aviation Inc.

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North County General Aviation Airport · West Palm Beach · Florida

Cessna C172SP

SPEEDS

	Normal Category	Utility Category
Max Ramp Weight.....	2558 lbs	2208
Max Takeoff Weight.....	2550 lbs	2200
Maneuvering Load Factor.....	+3.8g/-1.52g	+3.0g/-1.52g
Maneuvering Load Factor - flaps extended.....	+3.0g	+3.0g
V _A (1990/2550 lbs).....	90-105 KIAS	
V _{NE}	163 KIAS	
V _{NO}	129 KIAS	
V _{FE} (10 degrees/ full extension).....	110/85 KIAS	
V _Y (Flaps Up).....	74 KIAS	
V _X (Flaps Up).....	60 KIAS	
V _R (Flaps Up).....	55 KIAS	
V _{S1}	48 KIAS	
V _{S0}	40 KIAS	
V _{GLIDE}	68 KIAS	
Recommended Climb.....	75-85 KIAS	
Minimum balked landing speed (max power, flaps 20°).....	60 KIAS	
Final Approach speed (Flaps up).....	65-75 KIAS	
Final Approach speed (Flaps 30°).....	60-70 KIAS	
Final Approach speed (Short Field - Flaps 30°).....	61 KIAS	
Max demonstrated crosswind component.....	15 KTS	
Max Window Open speed.....	163 KIAS	

Engine (Lycoming).....	IO-360-L2A
Rated at (2700 RPM).....	180 BHP
Oil Capacity (max).....	8 qts
Oil Capacity (min).....	5 qts
Total Fuel Capacity (2 tanks).....	56.0 gal
Total Usable Fuel.....	53.0 gal
Center of Gravity Range (1950lbs/max gross).....	35"/41" - 47.3" 35"/37.5" - 40.5"

	(lbs) WEIGHT	(inches) ARM	(in-lbs) MOMENT
WEIGHT & BALANCE			
Basic Empty Weight N21339	1711.88	40.99	70169.96
Basic Empty Weight N65447	1710.50	41.00	70126.00
Basic Empty Weight N65410	1701.38	41.08	69889.07
Pilot & Passenger		37	
Rear Passengers		73	
Baggage (Max 120 lbs)		95	
Baggage (Area 2 - Max 50 lbs)*		123	
Fuel (Max 53 gal - 318 lbs)		48	

*Maximum combined baggage areas (120 lbs)

*No baggage for Utility Category

Useful Load N21339	846.12
Useful Load N65447	847.40
Useful Load N65410	856.62

Maneuvers	C-172N
Normal Category	Chandelles, Lazy 8s, Steep Turns and Stalls except whip stalls.
Utility Category	Spins and all of the above.