

NRI Flying Club			
N21348			
Updated 19-Jun-2022			
General		Speeds	MPH IAS
Year	1972	V <sub>r</sub> – Rotate / init climb @ Flaps (Normal)	60/ 90 @ 0-20 deg
Type	Cessna 182P Skylane	V <sub>r</sub> – Rotate / init climb @ Flaps (Short Fld)	60 / 63 @ 20 deg
Engine	Continental O-470R	V <sub>r</sub> – Rotate / init climb @ Flaps (Soft Field)	60 / 63 @ 20 deg
Propeller	82" Constant Speed	Normal Climb Speed	89
HP @ RPM	230 @ 2600	V <sub>x</sub> – Best Angle of Climb	70
Fuel Octane Grade Minimum	100LL (Blue)	V <sub>y</sub> – Best Rate of Climb	89
Fuel Useable	79 gallons	V <sub>cc</sub> – Best Enroute Climb	100-110 @ 23/2450
Fuel Unusable Gal	5.0	V <sub>no</sub> – Normal Operating Speed	160
Fuel Consumption at 75% Power (GPH)	14.0 gallons	V <sub>ne</sub> – Never Exceed speed	198
Endurance (75% Pwr, less 45' reserve)	4 Hours 54 Mins	V <sub>a</sub> – Maneuvering Speed	126
Oil (quarts) Min/Max – Preferred	9 / 12		
Air Pressure PSI (Nose / Mains)	49 /42		
Positive Load:	3.8g no flaps	V <sub>fe</sub> – Flap Extension Speed (1-10 Degree)	140
	2.0g with flaps	V <sub>fe</sub> – Flap Extension Speed (11-Max Degree)	110
Negative Load:	-1.52g	V <sub>lo</sub> / V <sub>le</sub> – Max Landing gear op/extend	N/A
		V <sub>s</sub> – Stall Speed (Clean)	64
Weight & Balance		V <sub>so</sub> – Stall Speed (Clean)	57
Basic Empty Weight	1798.4	Normal Approach - Downwind	80-90
Useful Load	1151.6*	Normal Approach - Base	70-80
Fuel Weight	474	Normal Approach – Final (Full Flaps)	70-80
Cabin Load w/ Full Fuel and Oil/No Bags	827.6*	Short Approach – Final (Full Flaps)	69
Max Baggage	200	Best Glide Speed / Engine Out	80 no Flaps
Max Gross Weight	3100*		75 full Flaps @ 2950
CG (empty)	36.63		85 full flaps @ 2951-3100
Empty moment	65,874	Max Crosswind	18 kts
Gear retraction moment change	N/A	White Arc (full flap, operating range)	63-110
Date of last Weight and Balance	26-Aug-2021	Green Arc (normal operating range)	68-160
		Yellow Arc (caution, only in smooth air)	160-198
		Red Line (Never Exceed)	198

\*Note: Max TOW 3100, max landing weight is 2950 These are estimates only.  
Please Consult POH for Official Data