

## NRI Flying Club

<b>N111GG</b>					
updated 20 Oct 2007					
<b>General</b>				<b>Speeds</b>	<b>MPH IAS</b>
Year	1972			Vr- Rotate / init climb @ Flaps (Normal)	60 / 90 @ 0-20 deg
Type	C-182P Skylane			Vr- Rotate / init climb @ Flaps (Short fld)	60 / 63 @ 20 deg
Engine	Cont. O-470-R			Vr- Rotate / init climb @ Flaps (Soft fld)	60 / 63 @ 20 deg
Propeller	82" Constant Speed			Normal climb speed	89
HP @ RPM	230 @ 2600			Vx - Best Angle of Climb	70
Fuel Octane Grade Minimum	100			Vy - Best Rate of Climb	89 (85 @ 10,000)
Fuel Usable	79			Vcc - Best Enroute Climb	100-110 @ 23/2450
Fuel Unusable Gal	5			Vno - Normal Operating Speed	160
Fuel Consumption at 75% Power (GPH)	14.0			Vne - Never Exceed	198
Endurance (75% pwr, less 45' reserve)	4 hrs, 54 min			Va - Manuvering Speed	126
Oil (quarts) Min / Max - Preferred	9 / 12 - 10				
Air Pressure PSI (Nose / Mains)	49 / 42				
Positive Load:	+ 3.80g (no flaps)			Vfe - Flap Extension (1-10 degree)	160 ( 1-10 deg)
	+ 2.00g (full flaps)			Vfe - Flap Extension (11-max deg)	110 (11-40 deg)
Negative Load	- 1.52g			Vlo / Vle - Max landing gear op/extend	n/a
				Vs - Stall Speed (Clean - 0 deg flaps)	64
				Vso - Stall Speed (Dirty - max flaps)	51
				Normal Approach Downwind	80 - 90
<b>Weights (Lbs)</b>				Normal Approach Base	70 - 80
Basic Empty Weight	1850.00			Normal Approach Final (Full Flaps)	70 - 80
Useful Load:	1100.00			Short Field Approach (Full Flaps)	69
Fuel Weight.	474.00			Best Glide Speed / Engine Out	80
Cabin Load w/ Full Fuel and Oil/ No bags	626.00				
Max Baggage:	200.00				
Max Gross Weight:	2950.00				
CG (empty)	32.64				
Empty moment	60388.00			Max Crosswind	18
Gear retraction moment change	n/a			Maximum Open Speed	
Date of last Weight and Balance	5-Oct-2007			White Arch (full flap operating range)	63 - 110
				Green Arch (normal operating range)	68 - 160
				Yellow Arch (caution, only in smooth air)	160 - 198
				Red Line (max speed all operations)	198

These are estimates only.  
Please check the POH  
to be sure.