

**NRI Flying Club**

<b>N7561X</b>				
Updated 19-Jun-2022				
<b>General</b>		<b>Speeds</b>		<b>KIAS</b>
Year	1978		Vr- Rotate / init climb @ Flaps (Normal)	50 / 70-80 @ 0-20 deg
Type	C-R182 Skylane RG		Vr- Rotate / init climb @ Flaps (Short Fld)	50 / 55 @ 20 deg
Engine	Lyc 0-540-J3C5D		Vr- Rotate / init climb @ Flaps (Soft Fld)	45 / 55 @ 20 deg
Propeller	82" Const-Speed		Normal climb speed	88
HP @ RPM	235 @ 2400		Vx - Best Angle of Climb	64 (66 @ 10,000)
Fuel Octane Grade Minimum	100		Vy - Best Rate of Climb	88 (74 @ 10,000)
Fuel Usable	75		Vcc - Best Enroute Climb	90-100 @ 23/2400
Fuel Unusable Gal	5		Vno - Normal Operating Speed	143
Fuel Consumption at 75% Power (GPH)	13.5		Vne - Never Exceed	182
Endurance (75% pwr, less 45' reserve)	4 hrs, 48 min		Va - Manuvering Speed	112 @ 3100 lbs
Oil (quarts) Min / Max - Preferred	6 / 8 - 6			101 @ 2550 lbs
Air Pressure PSI (Nose / Mains)	50 / 68			89 @ 2000 lbs
Positive Load:	+ 3.80g (no flaps)		Vfe - Flap Extension (1-10 degree)	140 ( 1-10 deg)
	+ 2.00g (full flaps)		Vfe - Flap Extension (11-max deg)	95 (11-40 deg)
Negative Load	- 1.52g		Vlo / Vle - Max landing gear op/extend	140
			Vs - Stall Speed (Clean - 0 deg flaps)	42
<b>Weights (Lbs)</b>			Vso - Stall Speed (Dirty - max flaps)	37
Basic Empty Weight	1841.15		Normal Approach Downwind	80 - 90
Useful Load:	1258.85		Normal Approach Base	70 - 80
Fuel Weight.	450		Normal Approach Final (Full Flaps)	65 - 75
Cabin Load w/ Full Fuel and Oil/ No bags	808.85		Short Field Approach (Full Flaps)	63
Max Baggage:	200		Best Glide Speed / Engine Out	80 @ 3100 lbs
Max Gross Weight:	3100			72 @ 2550 lbs
CG (empty)	34.86			64 @ 2000 lbs
Empty moment	64,177		Max Crosswind	18
Gear retraction moment change	3052		Maximum Open Speed	182 (window)
Date of last Weight and Balance	29-Aug-2019		White Arc (full flap operating range)	37 - 95
			Green Arc (normal operating range)	42 - 143
			Yellow Arc (caution, only in smooth air)	143 - 182
			Red Line (max speed all operations)	182

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