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| ***NRI Flying Club*** | |  | | |  |
|  |  | **N7561X** | | |  |
|  | Updated 19-Jun-2022 | | |  |
| **General** |  |  | **Speeds** | **KIAS** |
| 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 Opperating 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 |
| **Weights (Lbs)** |  |  | 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 Window Open Speed | 181 |
| 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. | | | | |

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