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| ***NRI Flying Club*** | |  |  |  |  |
|  |  | **N9556K** | | |  |
|  |  | Updated 19-Jun-2022 | | |  |
|  | **General** |  |  | **Speeds** | **KIAS** |
|  | Year | 1976 |  | Vr- Rotate / init climb @ Flaps (Normal) | 52-65 / 76 @ 0 deg |
|  | Type | PA28-181 |  | Vr- Rotate / init climb @ Flaps (Short Fld) | 41-49 / 64 @ 25 deg |
|  | Engine | Lyc 0-360-A4M |  | Vr- Rotate / init climb @ Flaps (Soft Fld) | 41-49 / 76 @ 25 deg |
|  | Propeller | 76" Fixed |  | Normal climb speed | 76 |
|  | HP @ RPM | 180 @ 2700 |  | Vx - Best Angle of Climb | 64 |
|  | Fuel Octane Grade Minimum | 100 |  | Vy - Best Rate of Climb | 76 |
|  | Fuel Usable | 48 (34 @ 17g tabs) |  | Vcc - Best Enroute Climb | 87 |
|  | Fuel Unusable Gal | 2 |  | Vno - Normal Opperating Speed | 121 |
|  | Fuel Consumption at 75% Power (GPH) | 10.5 |  | Vne - Never Exceed | 148 |
|  | Endurance (75% pwr, less 45' reserve) | 3 hrs, 49 min |  | Va - Manuvering Speed | 108 |
|  | Oil (quarts) Min / Max - Preferred | 5.5 / 8 - 6 |  |  |  |
|  | Air Pressure PSI (Nose / Mains) | 18 / 24 |  |  |  |
|  | Positive Load: | + 3.80g @ 2550 lbs |  | Vfe - Flap Extension (1-10 degree) | 100 |
|  |  | + 4.40g @ 1950 lbs |  | Vfe - Flap Extension (11-max deg) | 100 |
|  | Negative Load | Not Approved |  | Vlo / Vle - Max landing gear op/extend | n/a |
|  |  |  |  | Vs - Stall Speed (Clean - 0 deg flaps) | 54 |
|  | **Weights (Lbs)** |  |  | Vso - Stall Speed (Dirty - max flaps) | 48 |
|  | Basic Empty Weight | 1551.4 |  | Normal Approach Downwind | 75 |
|  | Useful Load: | 998.6 |  | Normal Approach Base | 70 |
|  | Fuel Weight. | 288 |  | Normal Approach Final (Full Flaps) | 66 |
|  | Cabin Load w/ Full Fuel and Oil/ No bags | 710.60 |  | Short Field Approach (Full Flaps) | 66 |
|  | Max Baggage: | 200 |  | Best Glide Speed / Engine Out | 76 |
|  | Max Gross Weight: | 2550 |  |  |  |
|  | CG (empty) | 86.9 |  |  |  |
|  | Empty moment | 134,799 |  | Max Crosswind | 17 |
|  | Gear retraction moment change | n/a |  | Maximum Open Speed | 87 (door) |
|  | Date of last Weight and Balance | 25-Feb-2022 |  | White Arc (full flap operating range) | 53 - 100 |
|  |  |  |  | Green Arc (normal operating range) | 59 - 121 |
|  |  |  |  | Yellow Arc (caution, only in smooth air) | 121 - 148 |
|  |  |  |  | Red Line (max speed all operations) | 148 |
|  | | These are estimates only. Please check the POH to be sure. | | |  |

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