

# PhoenixFlyers Aircraft

	Archer PA28-181 (knots)	Arrow PA28R-201 (knots)	Comanche PA24-260 (mph)
V <sub>S0</sub>	49	55	67
V <sub>S1</sub>	55	60	75
V <sub>X</sub> (Gear up, Flaps up)	64	78	87
V <sub>X</sub> (Gear Down, Flaps Up)	-	72	77
V <sub>Y</sub> (Gear up, Flaps up)	76	90	111
V <sub>Y</sub> (Gear Down, Flaps Up)	-	78	97
Enroute Climb	87	104	130
V <sub>A</sub> (At Gross weight)	113 @ 2550 lbs	118 @ 2750 lbs	146* @ 3100 lbs
V <sub>A</sub> (At empty weight)	89 @ 1634 lbs	96 @ 1865 lbs	109* @ 1718 lbs
V <sub>FE</sub>	102	103	125 (Rec. 100)
V <sub>LE</sub>	-	129	150 (Rec. 125)
V <sub>LO</sub> (Retracting)	-	107	150 (Rec. 125)
V <sub>LO</sub> (Extending)	-	129	150 (Rec. 125)
Best Glide	76	79	90 / 105**
V <sub>NE</sub>	154	183	222
V <sub>NO</sub>	125	146	180
Fuel (Total)	50	77	90
Fuel (Useable)	48	72	86
Fuel (Tabs / Inboards - Useable)	36	50	56
75% Power Setting (3000 feet)	2520 RPM	24.7", 2400 RPM	24", 2400 RPM
- Fuel Flow - Best Power / Economy	10.5 / 8.8	11.6 / 10.2	16.5 / 14.1
- Speed	115	135	175
65% Power Setting (3000 feet)	2380 RPM	22.2", 2400 RPM	21.6", 2400 RPM
- Fuel Flow - Best Power / Economy	9.0 / 7.6	10.4 / 9.2	14.8 / 12.2
- Speed	105	125	165
Service Ceiling	13,650	16,000	20,000
Gross Weight	2550	2750	3100
Max Landing Weight	-	-	2945
Normal Takeoff**			
- Flaps	0°	0°	0°
- Rotate At	60	70	80
- Climb At V <sub>Y</sub>	76	90	111
Short Takeoff			
- Flaps	25°	25°	15°
- Pull Back At	46	56	75
- Off Ground At	49	59	77
- V <sub>BS</sub>	54	62	87 (1.3 V <sub>S0</sub> )
Normal Landing**			
- Downwind Abeam	1900 RPM 1400 RPM, 80 kts	18", 2500 RPM 12", 85 kts	16", 2500 RPM 12", 110 MPH
- Base	1400 RPM, 75kts	80	100
- Final	70	75	90
Short Landing (Extend Downwind 5 sec.)			
- Downwind	1900 RPM 1600 RPM, 80 kts	18", 2500 RPM 14", 85 kts	16", 2500 RPM 14", 110 MPH
- Base	1600 RPM, 75kts	80	100
- Final	66	70	85

\* Calculated from stall speed and load factor.

\*\* Best Endurance / Best Range