

Density Altitude Charts

Pressure Altitude Correction: $(29.92 - 30.19) \times 1000 = -270\text{ft}$

Airport Pressure Altitude $2284.2 - 270 = 2014.2\text{ ft}$

Density Altitude Rule-of-Thumb Chart

The chart below illustrates an example of temperature effects on density altitude.

Density Altitude Rule-of-Thumb Chart

STD TEMP	ELEV/TEMP	80 °F	90 °F	100 °F	110 °F	120 °F	130 °F
59 °F	Sea level	1,200	1,900	2,500	3,200	3,800	4,400
52 °F	2,000	3,800	4,400	5,000	5,600	6,200	6,800
45 °F	4,000	6,300	6,900	7,500	8,100	8,700	9,400
38 °F	6,000	8,600	9,200	9,800	10,400	11,000	11,600
31 °F	8,000	11,100	11,700	12,300	12,800	13,300	13,800

Koch Chart

To find the effect of altitude and temperature, **connect** the temperature and airport altitude by a straight line.

Read the increase in takeoff distance and the decrease in rate of climb from standard sea level values.

