



PERFORMANCE DATA

Weight	
Pressure Altitude	
Temperature	
Head/Tail Wind	
Runway Slope %	
Take off Ground roll required	
Take off Total to clear 50ft obstacle	
Landing Ground roll required	
Landing Total to clear 50ft obstacle	

Factors must be multiplied i.e. 1.20 x 1.33				
	TAKE OFF		LANDING	
Condition	Increase in Take off Distance to Height 50ft	Factor	Increase in Landing Distance from 50ft	Factor
A 10% increase in aeroplane weight e.g. another passenger	20%	1.20	10%	1.10
An increase of 1,000 ft in aerodrome elevation	10%	1.10	5%	1.05
An increase of 10°C in ambient temperature	10%	1.10	5%	1.05
Dry grass - up to 20cm (firm soil)	20%	1.20	15%	1.15
Wet grass - up to 20cm (firm soil)	30%	1.30	35%	1.35
Very short grass may be slippery, distances may increase by up to 60%				
Wet paved surface			15%	1.15
A 2% slope	Uphill 10%	1.10	Downhill 10%	1.10
A tail wind component of 10% of take-off speed	20%	1.20	20%	1.20
Soft ground or snow	25% or more	1.25+	25% or more	1.25+
Additional Safety Factors (if data is unfactored)		1.33		1.43