

PEI TEMPERATURE CORRECTION TABLE

Updated June 2024



During permeability testing, the temperature of the water/soil in the well hole should be measured using a temperature probe. Then, the temperature correction factor, TCF, can be selected from the table below and multiplied by the rate of fall (R). The temperature-corrected Kfs can be selected or calculated using the temperature-corrected rate of fall (Rtc). The temperature correction factors below were calculated assuming a septic system operating temperature of 4 °C.

Water/Soil Test Temperature (°C)	Temperature Correction Factor (TCF)
2	1.07
3	1.03
4	1.00
5	0.97
6	0.94
7	0.91
8	0.88
9	0.86
10	0.83
11	0.81
12	0.79
13	0.77
14	0.75
15	0.73
16	0.71
17	0.69
18	0.67
19	0.66
20	0.64
21	0.62
22	0.61
23	0.59
24	0.58
25	0.57
26	0.56
27	0.54
28	0.53
29	0.52
30	0.51

EXAMPLE:

Steady-state rate of fall = 0.50 cm/min, Water/soil test temperature = 10°C → TCF = 0.83
Temp. corrected rate of fall, Rtc = R x TCF = 0.50 x 0.83 = 0.42 cm/min