
Summary of temperature trends

Tables 1 and 2 summarize the trend analysis results, using the 90% confidence interval. The temperature ranges indicate the lower and upper bounds of temperature change per decade.

Table 1. Summary of temperature trends using the entire available temperature record (full records)

Weather station	Max. temp range (°F)	Min. temp range (°F)	Period of record
Salt Lake City airport	0.02 to 0.4	0.68 to 1.0	1948 to 2006
Solitude/Brighton	-0.42 to -0.1	0.5 to 0.81	1949 to 2005
Logan	-0.04 to 0.13	0.05 to 0.21	1896 to 2006
Mountain Dell	-0.25 to 0.3	0.53 to 0.93	1949 to 2005

Table 2. Summary of temperature trends using only post-1970 data (1970 through 2006)

Weather station	Max. temp range (°F)	Min. temp range (°F)
Salt Lake City airport	0.004 to 0.81	0.62 to 1.2
Alta	-0.17 to 0.97	0.47 to 1.2
Solitude/Brighton	-0.5 to 0.2	0.86 to 1.6
Logan	0.1 to 1.15	0.1 to 1.0
Mountain Dell ^a	0.15 to 1.17	0.8 to 1.5

a. Data through 2005 only.

From the above temperature trends, we can draw the following conclusions:

1. Daily minimum temperatures are warming faster than daily maximum temperatures in all locations.
2. Minimum temperatures are warming between 0.05° and 1.6°F per decade. This implies that a 5°F warming could be reached by mid-century. This finding is consistent with the climate model projections we discuss in Section 2.6.
3. It is uncertain whether or not maximum daily temperatures are warming, cooling, or staying the same. The temperature *change* ranges from -0.5° to 1.17°F per decade. This is consistent with IPCC projections that minimum temperatures are likely to be more affected than maximum temperatures.
4. Warming trends are more pronounced after 1970, as compared to the entire available historical record.
