

ASHRAE Technical FAQ

ID 41

Question Where can I get design weather data for my area?

Design weather data refers generally to specific percentiles of occurrence (mostly joint) of temperature and humidity or wind speed as provided in [2017 ASHRAE Handbook - Fundamentals](#), Chapter [F14](#). Values for locations listed are based on long term hourly official meteorological observations. In the U.S. most available official meteorological data was used in compiling the information in Chapter [F14](#). Other data may be available from local ASHRAE chapters or universities. In other countries, National Meteorological Services generally will have observational data for more locations than listed in Chapter [F14](#). The National Climatic Data Center ([NCDC](#)) in Asheville NC makes available a web site providing links to sites providing weather information of potential interest to ASHRAE members (www.ncdc.noaa.gov/oa/ashrae/gwds-title.html)

The following are relevant available products:

[2017 ASHRAE Handbook - Fundamentals](#), Chapter [F14](#)

1993 ASHRAE Fundamentals Handbook, Chapter F24 (contains more U.S. locations since some were estimated; percentiles are seasonal rather than annual such as in the 2005 Handbook)

1981 ASHRAE Fundamentals Handbook, Chapter F24 (average monthly and yearly degree-days for U.S. & Canadian cities)

[ASHRAE Weather Data Viewer](#) (WDViewer6.0) DVD (same locations as 2017 Handbook with complete joint frequency information, i.e. all percentiles, not just the design percentiles: 0.4%, 1%, 2%, 99% and 99.6% annual percentiles of occurrence)

Engineering Weather Data CD (available from [NCDC](#) provides climatic design summaries for hundreds of locations in the U.S. and internationally).

The handbooks and the other publications may be purchased and/or individual chapters of the handbook may be purchased and downloaded on-line at our website, www.ashrae.org or by calling 1-800-527-4723 in the USA and Canada or 1-404-636-8400 worldwide.

The Air Conditioning Contractors of America ([ACCA](#)), Manual J also contains design temperature and humidity data for US and Canadian cities. (www.acca.org)

ASHRAE Pubs [2017 ASHRAE Handbook - Fundamentals](#), Chapter [F14](#); 1981 ASHRAE Fundamentals Handbook, Chapter F24 (Average monthly and yearly degree-days for U.S. & Canada cities); ASHRAE WYEC2 Data and Toolkit CD-ROM; ASHRAE Climatic Data for Region X Arizona, California, Hawaii, Nevada, Fifth Ed., 1982.; [ASHRAE Weather Data Viewer](#) (WDViewer6.0) DVD.

Topic References weather data

	Cognizant ASHRAE Committees	Refer to Organization
1	TC 4.2	NCDC
2		ACCA
3		
4		
5		